CCGS W.E. Ricker Gulf of Alaska Salmon Survey, October 1996

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Science Branch, Pacific Region
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2002

Canadian Data Report of Fisheries and Aquatic Sciences 1100

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Canadian Data Report of
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103-01922/

Canadian Data Report of
Fisheries and Aquatic Sciences 1100

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Cat. No. Fs 97-13/1100E ISSN 0706-6465

Correct citation for this publication:

Welch D. W., J. F. T. Morris, E. Demers, and J.P. Eveson. 2002. *CCGS W.E. Ricker* Gulf of Alaska salmon survey, October 1996. Can. Data Rep. Fish. Aquat. Sci. 1100: 64 p.

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A survey of the fall distribution of juvenile salmon (*Oncorhynchus spp.*) was conducted from October 1-30, 1996, in the northern Gulf of Alaska using a pelagic rope trawl on the CCGS W.E. Ricker. Juvenile salmon were exclusively confined to the continental shelf and shelf slope region between British Columbia and Kodiak, Alaska. The absence of juvenile salmon from waters greater than 1,000 m depth, and the presence of strong currents over the continental shelf and shelf slope (mean current speeds of 12.3 and 25.6 cm s^{-1} respectively) suggest that the majority of juvenile salmon migrate westward of Kodiak Alaska before eventually turning south and moving offshore. The reasons why juvenile salmon remain in continental shelf regions through their first summer and fall are unclear, but need to be better understood as this presumably drives the behavioural transformation of sockeye (*O. nerka*), pink (*O. gorbuscha*), and chum salmon (*O. keta*) into exclusively offshore pelagic animals that avoid the shelf region in their second and later years of life at sea until they return to spawn. The exact timing and westward extent of the juvenile migration on the shelf needs to be clarified in order to better understand the ocean biology of Pacific salmon, and establish the times and regions where changes in ocean climate can affect them.

RESUME

D. W. Welch, J. F. T Morris, E. Demers, and J. P. Eveson. 2002. *CCGS W.E. Ricker* Gulf of Alaska salmon survey, October 1996. Can. Data Rep. Fish. Aquat. Sci. 1100: 64 p.

Nous avons effectué une étude sur la distribution automnale des saumons juvéniles (Oncorhynchus spp.) à bord du CCGS W. E. Ricker du 1er au 30 octobre 1996 dans la partie nord du Golfe de l'Alaska à l'aide d'un chalut pélagique. Les saumons juvéniles étaient confinés sur le plateau continental et le talus continental entre la Colombie-Britannique et Kodiak, Alaska. L'absence de saumons juvéniles dans les eaux plus profondes que 1000 m, et la présence de courants forts le long du plateau continental et du talus continental (courant moyen de 12.3 et 25.6 cm s^{-1} respectivement) suggèrent que la majorité des saumons juvéniles migrent à l'ouest de Kodiak avant de se diriger vers le sud et d'aller vers le large. Les raisons pour lesquelles les saumons juvéniles demeurent dans la région du plateau continental durant leur premier été et automne sont incertaines, mais ont besoin d'être mieux comprises, car ceci inciterait les changements comportementaux des saumons rouges (O. nerka), roses (O. gorbuscha), et kétas (O. keta) qui les transformeraient en un animal exclusivement pélagique de telle sorte qu'ils éviteraient la région du plateau à partir de leur 2ème année de en mer jusqu'à ce qu'ils reviennent pour frayer. La synchronisation exacte et l'étendue ouest de la migration juvénile sur le plateau continental a besoin d'être clarifiée afin de mieux comprendre la biologie des saumons du Pacifique dans l'océan, et d'établir quand et où les changements de climat océanique les affectent.

INTRODUCTION

A survey of the fall distribution of juvenile salmon (*Oncorhynchus spp.*) was conducted from October 1-30, 1996, in the northern Gulf of Alaska using a pelagic rope trawl on the CCGS W.E. Ricker. The survey had the following objectives:

1) to determine the seaward extent of juvenile salmon on the continental shelf around the Gulf of Alaska in the fall;
2) to relate juvenile salmon distributions and abundance to physical and biological oceanographic conditions on the shelf;
3) to collect detailed oceanographic measurements on the Alaskan Coastal Current; and,
4) to determine if juvenile salmon are using the Alaskan Coastal Current to propel their migrations on the shelf around the Gulf of Alaska westward to Kodiak Island and the Aleutians.

MATERIALS AND METHODS

General Survey Information

Figure 1 shows the cruise track of the CCGS W.E. Ricker, and the fishing and oceanographic stations completed during the October 1996 survey. Thirteen fishing transects were completed around the Gulf of Alaska (the letters for each transect below match the letters in Figure 1):

A) one transect at the northern tip of Vancouver Island, across the entrance to Queen Charlotte Strait from Cape Caution to Cape Scott, and then continuing on seaward from Cape Scott;
B) one transect across the southern entrance to Hecate Strait;
C) one transect seaward off Langara Island;
D) two transects off Icy Point, central Alaska;
E) one transect off Ocean Cape, central Alaska;
F) one transect off Kayak Island;
G) two transects off Cape Cleare at the western tip of Montague Island, central Alaska;
H) one transect off Cape Chiniak at the eastern tip of Kodiak Island;
I) one transect off the Trinity Island group at the western tip of Kodiak Island;
J) one transect across the western entrance to Shelikof Strait; and,
K) one transect across the eastern entrance to Shelikof Strait.

In addition, one fishing station was completed south of Baranof Island en route to Icy Point.

Two exclusively oceanographic transects were also completed: (1) one transect en route on the shelf from Shelikof Strait to Cape Cleare; and, (2) one offshore transect en route from Cape Cleare to Icy Point.

In this report, the sampling stations are divided into three areas based on their bottom depth:

- Shelf – stations located from the shore to the 200 m isobath;
- Slope – stations located between the 200 m and 1,000 m isobaths; and,
- Offshore – stations located seaward of the 1,000 m isobath.

A total of 76 fishing tows and 89 oceanographic stations were completed during this survey.

Fishing Gear and Fishing Operations

The CCGS W.E. Ricker is a 1,104 gross tonnes stern trawler, 58 m in length, 9.5 m in beam, and powered by a 2,500 H.P. model AH 40 Akasaka diesel engine. Fish sampling was conducted during daytime with a model 400/580 mid-water trawl, manufactured by Cantrawl Pacific Ltd., Richmond, BC. The trawl measured 200 m in length, and had a front-end section of hexagonal mesh made with 3/8 in (9.5 mm) and 5/16 in (7.9 mm) Tenex rope, a body made up of 64 in (163 cm), 32 in (81.3 cm), 16 in (40.6 cm), 8 in (20.3 cm) and 4 in (10.2 cm) polypropylene sections, an intermediate section of 3 in (7.6 cm) polypropylene, and a 1.5 in (3.8 cm) nylon cod end lined with 0.25 in (6.4 mm) mesh.

Ideally, the W.E. Ricker towed the trawl within 5 m of the surface at 5 knots (2.6 m s^{-1}). Under good sea conditions, as existed in Hecate Strait, this was possible. However, because of heavy swells for much of the survey, the trawl was typically towed at approximately 10-15 m depths in order to maintain sufficient pressure on the trawl doors and keep the trawl mouth from collapsing. The trawl achieved a measured mouth opening of approximately 28 m horizontal by 16 m vertical (as measured by a ScanMar trawl eye) with the following configuration: 100 m of 1.25 in (3.2 cm) steel warp, three 120 m 5/8 in (1.6 cm) bridles per side attached at a single hook-up to 5 m U.S. Jet mid-water trawl doors, two 20 in (50.8 cm) diameter Scotsman floats attached at each wing tip, a 5 m canvas kite for additional lift attached to the head rope, and approximately 750 lbs. (340 kg) of chain on each side.

Oceanographic Sampling

At all oceanographic and fishing stations, the scientific crew (1) conducted CTD (conductivity-temperature-depth) casts, (2) collected surface seawater samples from the ship's pumped sea water loop for nitrate, phosphate, silicate, and salinity, (3) collected filtered surface seawater to measure chlorophyll *a*, and (4) used an acoustic Doppler current profiler (ADCP) to measure velocities and direction of currents with depth.

CTD casts were conducted to 600 m or within 5 m of the bottom with Guildline CTD probes (Serial No. 53977 and 57743). Six calibration samples from selected CTD casts were collected over the course of the survey with Niskin bottles at depths where the salinities were stable. The Niskin bottles were equipped with two reversing digital thermometers (Serial No. T557 and T647) and a pressure sensor (Serial No. P2099) with a 2,000 Dbar pressure range.

Surface samples were drawn from the ship's pumped seawater loop at all stations for subsequent measurement of nitrate, phosphate, silicate, barium, $\delta^{18}O$, and salinity levels. Nitrate and phosphate samples were collected in acid-washed glass test tubes and stored frozen. Silicate samples were collected in acid-washed plastic test tubes and also stored frozen. Barium and $\delta^{18}O$ samples were collected in high density polypropylene scintillation vials and stored at room temperature. Barium and $\delta^{18}O$ samples were collected as tracers for a future study to define sources of fresh water contributions to the Alaskan Coastal Current. A 500 ml seawater sample was filtered on an ashed GF/F Whatman glass fiber filter, folded in half, wrapped in aluminium foil and frozen for subsequent measurement of chlorophyll *a* and phytoplankton stable isotope ratios.

An acoustic Doppler current profiler (ADCP), RD Industries, frequency 150 kHz, was run continuously to measure velocities and direction of currents with depth along the survey track. The ADCP data was logged with Transect ver.1.82 software. In order to examine the effect of the tidal currents on the measured currents, a 25 hour ADCP transect was made across the shelf off Icy Point to examine time variation in the computed currents, and hence to more accurately calculate the strength and direction of the Alaskan Coastal Current. During this experiment, the W.E. Ricker steamed continuously back and forth across the shelf twice, in order to provide four separate measurements of current strength at each position. ADCP analyses can be obtained from Dr. Andreas Münchow, Rutgers University, New Brunswick, New Jersey. E-mail: andreas@imcs.rutgers.edu

Satellite Drogues

Calculation of surface currents from the ADCP has several limitations, especially the short time record for any given location, and the aliasing of tidal currents with the long-shore current flow. Peak tidal currents are likely of similar intensity to the Coastal Current in many areas of the continental shelf, and the removal of their effect on the estimated currents is difficult.

In order to track the speed and direction of the surface flow of the Alaskan Coastal Current, HERMES satellite-tracked surface drifter drogues were deployed on October 7, 1996, at four positions at approximately 10 nm (18.5 km) intervals along the Langara Island offshore transect (Queen Charlotte Islands). The HERMES drifters were tethered by 10 m cable to sub-surface, cone-shaped drogues measuring 1 m in diameter by 10 m in length and fitted with batteries that had an operational life of approximately 30 days.

Drogues were deployed at the following positions and times (on October 7, 1996):

1) Drifter 4010 deployed at 54°12.927'N, 133°42.734'W (closest to the beach), at 15:15 PDT;
2) Drifter 1193, deployed at 54°10.908'N, 133° 52.619'W, at 16:07 PDT;
3) Drifter 1192, deployed at 54°09.976'N, 134°02.972'W, at 17:12 PDT; and,
4) Drifter 1194 at 54°00.7360'N, 134°13.244'W, at 17:12 PDT.

Drifters 1193 and 1194 stopped transmitting within a few days of deployment. However, drifters 1192 and 4010 continued transmitting until November 27 and December 21, respectively, and provided an excellent description of the Alaskan Coastal Current off Southeast Alaska. In turn, these data can be used to determine how much the current aids the speed of migrating salmon.

RESULTS

Salmon Catch Data

Table 1 reports information on trawl tows and a summary of salmon catches for the survey. Tow information includes: station ID, transect name, sampling region, date and time recorded in Pacific Standard Time (PST), start latitude (°N) and longitude (°W), heading (°T; degrees true), and bottom depth (m). For each tow, catch totals are provided separately for juvenile and adult chinook (CK) (*O. tshawytscha*), chum (CM) (*O. keta*), coho (CO) (*O. kisutch*), pink (PK) (*O. gorbuscha*) and sockeye salmon (*O. nerka*) (SE). In this report, "juveniles" are defined as salmon in their first year in the ocean (age .0+), while "immature" and "adults" include all older age groups (age .1+ or older).

Station ID numbers in Table 1 consisted of the Pacific Biological Station cruise designation ("HS1096" for this cruise, where HS stands for Highseas), followed by a consecutive tow number on the survey (from 1 to 89). The station ID number serves as the primary key in the Highseas salmon database that links fishing tow information with the oceanographic tables.

A total of 1,142 salmon were caught during this survey, with juvenile pink and chum salmon representing 63% and 23% of the salmon caught, respectively (Table 1; Figure 2-6). Only nine older salmon (age .2+ and older) were caught (Figure 7).

In October 1996, juvenile pink, chum, chinook and sockeye salmon were caught exclusively on the continental shelf and slope within the 1,000 m contour (Figures 2-5). Only five juvenile coho salmon were caught beyond the 1,000 m contour (Figure 6). Box and whisker plots of log(CPUE) by station show even more dramatically that

juvenile pink, chum and sockeye salmon were caught almost exclusively on the shelf (Figure 8).

British Columbia – On the transect at the northern tip of Vancouver Island, a total of 129 juvenile salmon were caught in 10 tows (average CPUE of 12.9 fish per tow), of which, 43% and 42% were pink and chum salmon, respectively. On the transect across the southern entrance to Hecate Strait, 243 juvenile salmon (mostly pink salmon) were caught in 5 tows (average CPUE of 48.6 fish per tow). No juvenile salmon were caught in the 5 tows taken on the transect off Langara Island (Queen Charlotte Islands).

South-Central and Central Alaska – On two transects near Icy Point, a total of 32 juvenile salmon were caught in 14 tows (average CPUE of 2.3 fish per tow), including 7 chum and 4 coho salmon. On the transect near Ocean Cape, 13 juvenile salmon (mostly pink and chum salmon) were caught in 6 tows (average CPUE of 2.2 fish per tow). On the transect near Kayak Island, 46 juvenile salmon were caught in 5 tows (average CPUE of 9.2 fish per tow), including 23 pink, 15 chum and 8 coho salmon. On two transects near Cape Cleare, 200 juvenile salmon were caught in 9 tows (average CPUE of 22.2 fish per tow), of which, 55%, 29% and 15% were chum, pink and sockeye salmon, respectively.

Kodiak Island – On the transect off the eastern tip of Kodiak Island, a total of 232 juvenile salmon were caught in 6 tows (average CPUE of 39 fish per tow), of which, 84%, 2%, and 13% were pink chum and sockeye salmon, respectively. On the transect off the western tip of Kodiak Island, 26 juvenile salmon were caught in 7 tows (average CPUE of 3.7 fish per tow), including 15 coho, 5 pink and 5 sockeye salmon.

Shelikof Strait – Juvenile salmon appeared to be migrating both through Shelikof Strait and along the seaward (southern) side of Kodiak Island. On the transect at the northeastern end of Shelikof Strait, a total of 40 juvenile salmon were caught in 4 tows (average CPUE of 10 fish per tow). On the transect at the southwestern end of Shelikof Strait, a total of 172 juvenile salmon were caught in 5 tows (average CPUE of 34 fish per tow), of which, 67% and 24% were pink and chum salmon, respectively.

Biological Data

Table 2 reports the detailed biological data collected from each salmon caught on the survey. Individual salmon were assigned a fish number which consisted of the cruise identifier "HS1096", followed hierarchically by tow number, species code, and sample number. For example, "HS1096-001-124-001" refers to tow number 1, species code "124" for chinook salmon, and the sample number "1" (within tow and species). We used the following codes from Fisheries and Oceans' Salmon Stock Assessment database: 108, pink salmon; 112, chum salmon; 115, coho salmon; 118, sockeye salmon; and 124, chinook salmon.

Biological data collected for each salmon includes (when available): species common name, fork length (mm), whole body weight (g wet; excluding stomach contents), sex, stomach content weight (g wet), % water (based on the ratio of dry to wet whole body weight, excluding stomach contents), and coded wire tag number (if present).

Salmon were initially dried in an industrial freeze-drier, but the time required to dry the animals to constant weight was prohibitive. Whole frozen salmon, minus stomach contents, were freeze-dried for 3-4 weeks which only removed 50-70% of the water. The partially dried salmon were then moved in a drying oven at 60°C until a constant weight was achieved for 3 consecutive daily readings. The drying oven step usually took 5-7 days.

Figure 9 shows box and whisker plots of fork length for juvenile coho, sockeye, chum and pink salmon caught in each transect. For all species, individuals tended be larger in the most northern transects around Kodiak Island (transects H - K) than in more southern transects around British Columbia (transects A - C) and around Southeast and Central Alaska (transects D - G).

Table 3 reports the stomach contents for juvenile salmon collected on the W.E. Ricker cruise to the Gulf of Alaska, October 1996. Stomach content weights were determined in the laboratory, and the % composition for major taxonomic groups was estimated visually. A list of the abbreviations for diet items is included at the end of Table 3.

Figure 10 shows box and whisker plots of stomach content weight (expressed as percent of whole body weight) for juvenile coho, sockeye, chum and pink salmon caught in each transect. For all species, stomach content weights were variable and there was no pattern with respect to sampling location.

Oceanographic Data

Table 4 reports the physical oceanographic data collected on the survey, including the station ID number, the Institute of Ocean Sciences' consecutive number for the CTD cast, transect, sampling region, bottom depth (m), the date and time in UTC, the latitude (°N) and longitude (°W), sea surface temperature (SST) in °C taken from the processed CTD files, sea surface salinity (SSS) in ppt taken from the CTD files, sea surface salinities in ppt determined from the sample bottles that were used to calibrate the CTD probe, and nitrate, silicate and phosphate concentrations in micromoles (μmol / L). The CTD consecutive number consists of the Institute of Ocean Sciences' cruise designation "9640" followed by the consecutive number for each CTD cast on this survey.

The CTD files can be obtained from Robin Brown, Department of Fisheries and Oceans, Institute of Ocean Sciences, 9860 West Saanich Rd, Sidney, BC, Canada V8L 4B2. Tel: (250) 363-6378; E-mail: BrownRo@dfo-mpo.gc.ca.

Salmon Distribution Relative to Environmental Factors

As noted earlier, juvenile salmon were confined to the continental shelf and shelf slope area. Only a slight dependence of abundance on either salinity or temperature was apparent (Figures 11 and 12), with almost no juveniles caught in waters with temperature greater than greater than 12°C or salinity greater than 32.5 ppt. However, these measurements are confounded with location, since offshore stations have the highest salinity and southern stations the highest temperatures.

Satellite Drifters

Figure 14 shows the tracks of Hermes drifters 1192 and 4010, which were released just north of the Queen Charlotte Islands on October 7, 1996, and stopped relaying data on November 27, 1996, and December 21, 1996, respectively. The lines show the drifters' positions interpolated every three hours whereas the symbols mark their daily positions (i.e., position every 24 hours after initial release). Note that drifter 4010 grounded between November 4 and December 4, and the data from this time period was not used in calculating average current speeds.

The drifter data can be used to estimate the average current speed along the coast by dividing the distance the drifter travelled in each time interval by the duration of the time interval (t), and then averaging these results. The time interval selected for these calculations affects the estimates of current speed. If the selected time interval is too small, then the true speed over ground tends to be overestimated because the track of the drifter includes the distance covered due to circular motions induced by tides and eddies, and which do not contribute to net transport along the shelf.

Because we have interpolated drifter positions every three hours, we can take t to be any multiple of three hours. Figure 15 shows the estimated average drifter speed made by considering successively greater temporal separations from the original 3-hour interpolated position fixes. The average speed was calculated by summing the distance covered between all possible positional fixes separated by 3, 6, 9, etc. hours, and then dividing by the number of observations possible. As calculations were made for longer time separations, the substantial fine scale movement due to tidal oscillations or following circular eddies is essentially averaged out of the calculation of average speed.

As the average is calculated over greater temporal separations, the effect of tidal oscillations and other rotary effects that may not contribute to effective movement of the drifter along the shelf are discounted. However, at very long temporal separations (e.g., the start and end point), the calculated track is simply the straight line distance between two points, and underestimates current speed because it does not take into account potential curvature of the drift track along the shelf.

Figure 15 shows the results of calculations done separately prior to and following the period that the drifters were caught in a large mesoscale eddy, and exclude times

when one of the two drifters grounded. For both time periods and both drifters, the average speed tends to stabilise for time intervals exceeding approximately four days or 96 hours. Thus, we averaged all speeds for *t* greater than 96 hours to get final estimates of the current speeds as summarised in the following table:

	Drifter 1192	Drifter 4010
Before eddy	10.74 cm s^{-1}	13.79 cm s^{-1}
After eddy	30.38 cm s^{-1}	20.91 cm s^{-1}

Calculation of the speed of the drifters before and after the period when they were captured in the eddy shows that the surface current carried the drifters at 10.7-13.8 cm s^{-1} in the earlier period, but that the long-shelf current flow to the north along the shelf slope carried the drifters northwards along Southeast Alaska at 20.9-30.4 cm s^{-1} in the later period. Thus the coastal current can augment a salmon's speed by approximately 10 to 30 cm s^{-1}, depending on time and distance from the coast. After leaving the eddy, drifter 1192 was generally further offshore than drifter 4010 and had a higher speed, suggesting that salmon further offshore will benefit more from the current. To put this speed in perspective, a salmon can swim at approximately one body length per second, which for an average fish during the time of our survey is roughly 20-25 cm s^{-1}. Thus, a juvenile salmon swimming against the current would either be carried north in the surface flow, or at best remain stationary. Since juveniles were not found offshore (a distance that they could cover in four days of directed swimming to the west) the animals are presumably swimming with the current to the north, and thus roughly doubling their achieved migration speeds.

The Alaskan Coastal Current thus has the potential to play an important role in the migration of juvenile salmon on the shelf around the northern Gulf of Alaska. However, as the current speed of the Alaskan Stream (located just offshore from the shelf slope) is of comparable magnitude, an unresolved question is why the juvenile salmon continue to occupy shelf and slope environments almost exclusively, when migration speeds in the offshore region would be comparable to those of the shelf and slope regions.

ACKNOWLEDGMENTS

We thank Dr Rick Thomson, Institute of Ocean Sciences, for assistance with setting up the Hermes drifters, and with obtaining the processed data in a format amenable to further analysis.

Table 1. Tow positions and summary of salmon catches for the W.E. Ricker survey to the Gulf of Alaska, October 1996.

Station ID	Transect	Region	Date	Time PST	Latitude (°N)	Longitude (°W)	Heading (°T)	Bottom Depth (m)	CK juv	CK ad.	CM juv	CM ad.	CO juv	CO ad.	PK juv	PK ad.	SE juv	SE ad.
HS109601	NORTH VANCOUVER ISLAND	VANCOUVER ISLAND	03-Oct-1996	08:07	51.176	127.860	226	80	1	0	0	0	0	0	5	0	0	0
HS109602	NORTH VANCOUVER ISLAND	VANCOUVER ISLAND	03-Oct-1996	10:50	51.098	127.961	227	68	0	0	0	0	0	0	0	0	0	0
HS109603	NORTH VANCOUVER ISLAND	VANCOUVER ISLAND	03-Oct-1996	11:09	51.025	128.057	240	89	0	0	0	0	0	0	4	0	0	0
HS109604	NORTH VANCOUVER ISLAND	VANCOUVER ISLAND	03-Oct-1996	13:03	50.954	128.212	225	92	0	0	0	0	1	0	8	0	2	0
HS109605	NORTH VANCOUVER ISLAND	VANCOUVER ISLAND	03-Oct-1996	14:34	50.887	128.315	222	55	1	0	23	0	5	0	30	0	0	0
HS109606	NORTH VANCOUVER ISLAND	VANCOUVER ISLAND	03-Oct-1996	15:58	50.832	128.419	255	33	3	1	30	1	4	0	7	0	0	0
HS109607	NORTH VANCOUVER ISLAND	VANCOUVER ISLAND	03-Oct-1996	17:40	50.752	128.505	228	103	0	0	1	3	1	0	1	0	1	0
HS109608	NORTH VANCOUVER ISLAND	VANCOUVER ISLAND	04-Oct-1996	07:45	50.702	128.568	238	56	0	0	0	0	1	0	0	0	0	0
HS109609	NORTH VANCOUVER ISLAND	VANCOUVER ISLAND	04-Oct-1996	09:36	50.650	128.697	225	217	0	0	0	0	0	0	0	0	0	0
HS109610	NORTH VANCOUVER ISLAND	VANCOUVER ISLAND	04-Oct-1996	10:49	50.590	128.783	223	319	0	0	0	0	0	0	0	0	0	0
HS109611	HECATE STRAIT	HECATE STRAIT	05-Oct-1996	08:22	52.342	130.991	040	91	0	0	0	0	0	0	85	0	0	0
HS109612	HECATE STRAIT	HECATE STRAIT	05-Oct-1996	10:26	52.449	130.829	047	99	0	0	0	0	0	0	4	0	1	0
HS109613	HECATE STRAIT	HECATE STRAIT	05-Oct-1996	12:55	52.610	130.602	034	121	0	0	0	0	0	0	6	0	0	0
HS109614	HECATE STRAIT	HECATE STRAIT	05-Oct-1996	15:13	52.762	130.376	035	196	0	0	3	0	0	0	93	0	0	0
HS109615	HECATE STRAIT	HECATE STRAIT	05-Oct-1996	18:02	52.946	130.120	034	224	0	0	6	0	0	0	42	0	3	0
HS109616	LANGARA ISLAND	DIXON ENTRANCE	07-Oct-1996	09:00	54.284	133.063	262	327	0	0	0	0	0	0	0	0	0	0
HS109617	LANGARA ISLAND	DIXON ENTRANCE	07-Oct-1996	11:50	54.245	133.348	257	333	0	0	0	0	0	0	0	0	0	0
HS109618	LANGARA ISLAND	DIXON ENTRANCE	07-Oct-1996	14:22	54.214	133.634	266	317	0	0	0	0	0	0	0	0	0	0
HS109619	LANGARA ISLAND	DIXON ENTRANCE	07-Oct-1996	17:44	54.180	133.918	263	1,019	0	0	0	0	0	0	0	0	0	0
HS109620	CAPE CAUTION	DIXON ENTRANCE	08-Oct-1996	08:52	55.950	134.776	020	196	0	0	0	0	0	0	0	0	0	0
HS109621	ICY POINT	SOUTH CENTRAL ALASKA	09-Oct-1996	08:39	58.319	137.138	216	66	0	0	2	0	6	0	1	0	1	0
HS109622	ICY POINT	SOUTH CENTRAL ALASKA	09-Oct-1996	10:09	58.249	137.223	212	148	0	0	1	0	0	0	1	0	0	0
HS109623	ICY POINT	SOUTH CENTRAL ALASKA	09-Oct-1996	11:39	58.180	137.310	217	148	0	0	12	0	0	0	3	0	0	0
HS109624	ICY POINT	SOUTH CENTRAL ALASKA	09-Oct-1996	13:05	58.113	137.401	224	145	0	0	0	0	2	0	0	0	0	0
HS109625	ICY POINT	SOUTH CENTRAL ALASKA	09-Oct-1996	14:29	58.046	137.496	222	161	0	0	0	0	0	0	0	0	0	0
HS109626	ICY POINT	SOUTH CENTRAL ALASKA	09-Oct-1996	15:57	57.980	137.576	215	287	0	0	0	0	0	0	0	0	0	0
HS109627	ICY POINT	SOUTH CENTRAL ALASKA	09-Oct-1996	17:25	57.915	137.667	213	1,004	0	0	0	0	0	0	0	0	0	0
HS109628	ICY POINT	SOUTH CENTRAL ALASKA	09-Oct-1996	18:19	57.854	137.736	210	1,004	0	0	0	0	0	0	0	0	0	0
HS109629	OCEAN CAPE	SOUTH CENTRAL ALASKA	10-Oct-1996	08:40	58.544	140.474	012	1,956	0	0	0	0	0	0	0	0	0	0
HS109630	OCEAN CAPE	SOUTH CENTRAL ALASKA	10-Oct-1996	10:53	58.716	140.373	019	466	0	0	0	0	0	0	0	0	0	0
HS109631	OCEAN CAPE	SOUTH CENTRAL ALASKA	10-Oct-1996	13:02	58.860	140.300	016	209	0	0	0	0	0	0	0	0	0	0
HS109632	OCEAN CAPE	SOUTH CENTRAL ALASKA	10-Oct-1996	15:12	59.032	140.188	019	154	0	0	0	0	0	0	0	0	0	0
HS109633	OCEAN CAPE	SOUTH CENTRAL ALASKA	10-Oct-1996	17:28	59.169	140.109	006	135	0	0	0	0	0	0	0	0	0	0
HS109634	OCEAN CAPE	SOUTH CENTRAL ALASKA	10-Oct-1996	19:32	59.354	140.002	017	119	0	0	3	0	1	0	9	0	0	0
HS109636	KAYAK ISLAND	CENTRAL ALASKA	11-Oct-1996	11:34	59.887	143.999	179	81	0	0	9	0	0	0	16	0	0	0
HS109637	KAYAK ISLAND	CENTRAL ALASKA	11-Oct-1996	12:54	59.805	144.000	193	158	0	0	0	0	0	0	1	0	0	0
HS109638	KAYAK ISLAND	CENTRAL ALASKA	11-Oct-1996	14:20	59.720	144.003	193	196	0	0	6	0	1	0	5	0	0	0
HS109639	KAYAK ISLAND	CENTRAL ALASKA	11-Oct-1996	16:05	59.649	143.994	202	235	0	0	0	0	2	0	1	0	0	0
HS109640	KAYAK ISLAND	CENTRAL ALASKA	11-Oct-1996	18:04	59.547	143.995	201	654	0	0	0	0	5	0	0	0	0	0
HS109641	CAPE CLEARE	CENTRAL ALASKA	13-Oct-1996	08:14	59.656	147.990	141	145	0	0	97	0	0	0	6	0	1	0
HS109642	CAPE CLEARE	CENTRAL ALASKA	13-Oct-1996	10:21	59.533	147.782	143	159	0	0	7	0	0	0	7	0	2	0
HS109644	CAPE CLEARE	CENTRAL ALASKA	13-Oct-1996	08:49	59.396	147.545	137	82	0	0	0	1	1	0	28	0	25	0
HS109645	CAPE CHINIAK	KODIAK ISLAND	18-Oct-1996	12:46	57.504	151.943	149	77	0	0	0	0	0	0	1	0	1	0

Table 1. Tow positions and summary of salmon catches for the W.E. Ricker survey to the Gulf of Alaska, October 1996.

Station ID	Transect	Region	Date	Time PST	Latitude (°N)	Longitude (°W)	Heading (°T)	Bottom Depth (m)	CK juv	CK ad.	CM juv	CM ad.	CO juv	CO ad.	PK juv	PK ad.	SE juv	SE ad.
HS109646	CAPE CHINIAK	KODIAK ISLAND	18-Oct-1996	14:51	57.380	151.689	132	160	0	0	5	0	0	0	194	0	28	0
HS109647	CAPE CHINIAK	KODIAK ISLAND	18-Oct-1996	17:07	57.270	151.473	131	186	0	0	0	0	0	0	0	0	0	0
HS109648	CAPE CHINIAK	KODIAK ISLAND	18-Oct-1996	19:13	57.147	151.238	129	205	0	0	0	0	1	0	1	0	0	0
HS109649	CAPE CHINIAK	KODIAK ISLAND	18-Oct-1996	22:23	56.973	150.871	128	1,131	0	0	0	1	0	0	0	0	0	0
HS109650	CAPE CHINIAK	KODIAK ISLAND	18-Oct-1996	00:55	56.876	150.656	150	2,107	0	0	0	0	1	0	0	0	0	0
HS109651	TRINITY ISLAND	KODIAK ISLAND	19-Oct-1996	12:51	55.972	152.730	293	3,651	0	0	0	0	0	0	0	0	0	0
HS109652	TRINITY ISLAND	KODIAK ISLAND	19-Oct-1996	15:42	56.065	152.978	286	2,315	0	0	0	1	4	0	0	0	0	0
HS109653	TRINITY ISLAND	KODIAK ISLAND	19-Oct-1996	18:06	56.167	153.243	302	621	0	0	0	0	2	0	0	0	0	0
HS109654	TRINITY ISLAND	KODIAK ISLAND	19-Oct-1996	19:35	56.220	153.340	322	303	0	0	1	0	8	0	5	0	2	0
HS109655	TRINITY ISLAND	KODIAK ISLAND	19-Oct-1996	20:53	56.271	153.464	307	173	0	0	0	0	1	0	0	0	0	0
HS109656	TRINITY ISLAND	KODIAK ISLAND	19-Oct-1996	22:11	56.320	153.588	302	145	0	0	0	0	0	0	0	0	0	0
HS109657	TRINITY ISLAND	KODIAK ISLAND	19-Oct-1996	23:26	56.359	153.708	321	80	0	0	0	0	0	0	0	0	3	0
HS109658	SHELIKOF STRAIT SW	KODIAK ISLAND	20-Oct-1996	08:11	57.238	154.889	305	150	2	0	7	1	1	0	19	0	3	0
HS109659	SHELIKOF STRAIT SW	KODIAK ISLAND	20-Oct-1996	11:06	57.406	154.998	358	202	0	0	23	0	0	0	75	0	6	0
HS109660	SHELIKOF STRAIT SW	KODIAK ISLAND	20-Oct-1996	12:45	57.520	155.022	337	219	0	0	11	0	0	0	21	0	1	0
HS109661	SHELIKOF STRAIT SW	KODIAK ISLAND	20-Oct-1996	14:33	57.640	155.035	348	211	0	0	1	0	0	0	1	0	0	0
HS109662	SHELIKOF STRAIT SW	KODIAK ISLAND	20-Oct-1996	15:52	57.751	155.058	040	297	1	0	0	0	0	0	0	0	0	0
HS109663	SHELIKOF STRAIT NE	KODIAK ISLAND	21-Oct-1996	06:07	58.776	152.654	282	97	0	0	0	0	0	0	1	0	0	0
HS109664	SHELIKOF STRAIT NE	KODIAK ISLAND	21-Oct-1996	09:29	58.786	152.817	290	99	2	0	0	0	0	0	1	0	0	0
HS109665	SHELIKOF STRAIT NE	KODIAK ISLAND	21-Oct-1996	10:49	58.814	152.959	320	85	0	0	5	0	0	0	25	0	4	0
HS109666	SHELIKOF STRAIT NE	KODIAK ISLAND	21-Oct-1996	12:32	58.872	153.143	127	166	1	0	0	0	1	0	0	0	0	0
HS109672	CAPE CLEARE	CENTRAL ALASKA	22-Oct-1996	08:06	59.640	148.367	147	195	0	0	2	0	0	0	0	0	0	0
HS109673	CAPE CLEARE	CENTRAL ALASKA	22-Oct-1996	10:28	59.519	148.134	150	191	0	0	3	0	1	0	1	0	0	0
HS109674	CAPE CLEARE	CENTRAL ALASKA	22-Oct-1996	12:37	59.385	147.909	154	191	0	0	0	0	0	0	1	0	2	0
HS109675	CAPE CLEARE	CENTRAL ALASKA	22-Oct-1996	14:43	59.256	147.688	155	154	0	0	0	0	0	0	15	0	0	0
HS109676	CAPE CLEARE	CENTRAL ALASKA	22-Oct-1996	17:12	59.123	147.505	167	292	0	0	0	0	1	0	0	0	0	0
HS109677	CAPE CLEARE	CENTRAL ALASKA	22-Oct-1996	18:43	59.020	147.408	155	762	0	0	0	0	0	0	0	0	0	0
HS109684	ICY POINT	SOUTH CENTRAL ALASKA	24-Oct-1996	10:18	57.896	138.710	048	2,923	0	0	0	0	0	0	0	0	0	0
HS109685	ICY POINT	SOUTH CENTRAL ALASKA	24-Oct-1996	12:46	57.988	138.426	064	1,021	0	0	0	0	0	0	0	0	0	0
HS109686	ICY POINT	SOUTH CENTRAL ALASKA	24-Oct-1996	14:42	58.044	138.179	059	217	0	0	0	0	0	0	0	0	0	0
HS109687	ICY POINT	SOUTH CENTRAL ALASKA	24-Oct-1996	17:52	58.220	137.617	054	202	0	0	0	0	0	0	0	0	0	0
HS109688	ICY POINT	SOUTH CENTRAL ALASKA	24-Oct-1996	19:40	58.307	137.342	056	191	0	0	0	0	1	0	0	0	0	0
HS109689	ICY POINT	SOUTH CENTRAL ALASKA	24-Oct-1996	21:02	58.368	137.185	298	174	0	0	1	0	1	0	0	0	0	0
								Totals :	11	1	259	8	53	0	724	0	86	0
								Overall total:										1,142

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-001-124-001	CHINOOK	186	N/A	M	N/A	N/A	
HS1096-005-124-001	CHINOOK	165	48	F	0.96	N/A	
HS1096-006-124-001	CHINOOK	230	160	F	3.25	N/A	
HS1096-006-124-002	CHINOOK	217	124	F	2.04	N/A	
HS1096-006-124-003	CHINOOK	292	274	F	16.83	N/A	
HS1096-006-124-004	CHINOOK	463	N/A	N/A	N/A	N/A	
HS1096-058-124-001	CHINOOK	324	N/A	M	N/A	N/A	
HS1096-058-124-002	CHINOOK	292	N/A	F	N/A	N/A	
HS1096-062-124-001	CHINOOK	216	N/A	N/A	N/A	N/A	
HS1096-064-124-001	CHINOOK	237	172	F	0.00	N/A	
HS1096-064-124-002	CHINOOK	364	583	F	0.00	N/A	
HS1096-066-124-001	CHINOOK	233	140	F	0.00	N/A	
HS1096-005-112-001	CHUM	212	95	M	7.77	N/A	
HS1096-005-112-002	CHUM	223	110	M	10.29	N/A	
HS1096-005-112-003	CHUM	233	135	M	14.93	N/A	
HS1096-005-112-004	CHUM	219	107	F	6.61	N/A	
HS1096-005-112-005	CHUM	238	140	F	8.31	N/A	
HS1096-005-112-006	CHUM	227	125	F	3.44	N/A	
HS1096-005-112-007	CHUM	230	121	M	0.96	N/A	
HS1096-005-112-008	CHUM	220	100	F	12.00	N/A	
HS1096-005-112-009	CHUM	216	101	M	4.67	N/A	
HS1096-005-112-010	CHUM	207	N/A	N/A	N/A	N/A	
HS1096-005-112-011	CHUM	233	N/A	N/A	N/A	N/A	
HS1096-005-112-012	CHUM	218	N/A	N/A	N/A	N/A	
HS1096-005-112-013	CHUM	214	N/A	N/A	N/A	N/A	
HS1096-005-112-014	CHUM	198	N/A	N/A	N/A	N/A	
HS1096-005-112-015	CHUM	220	N/A	N/A	N/A	N/A	
HS1096-005-112-016	CHUM	185	N/A	F	N/A	N/A	
HS1096-005-112-017	CHUM	220	N/A	M	N/A	N/A	
HS1096-005-112-018	CHUM	230	N/A	M	N/A	N/A	
HS1096-005-112-019	CHUM	211	N/A	M	N/A	N/A	
HS1096-005-112-020	CHUM	198	N/A	M	N/A	N/A	
HS1096-005-112-021	CHUM	238	N/A	F	N/A	N/A	
HS1096-005-112-022	CHUM	218	N/A	F	N/A	N/A	
HS1096-005-112-023	CHUM	224	N/A	F	N/A	N/A	
HS1096-006-112-001	CHUM	209	N/A	N/A	N/A	N/A	
HS1096-006-112-002	CHUM	232	134	M	3.17	74	
HS1096-006-112-003	CHUM	220	120	F	4.61	75	
HS1096-006-112-004	CHUM	229	124	F	3.96	75	
HS1096-006-112-005	CHUM	227	126	M	3.42	74	
HS1096-006-112-006	CHUM	208	95	F	1.41	N/A	
HS1096-006-112-007	CHUM	217	104	F	2.75	77	
HS1096-006-112-008	CHUM	217	111	F	4.88	N/A	
HS1096-006-112-009	CHUM	206	97	M	2.87	76	
HS1096-006-112-010	CHUM	222	125	F	4.19	77	
HS1096-006-112-011	CHUM	213	N/A	N/A	N/A	N/A	
HS1096-006-112-012	CHUM	205	94	M	2.56	N/A	
HS1096-006-112-013	CHUM	208	102	M	3.64	N/A	
HS1096-006-112-014	CHUM	225	131	F	2.67	N/A	

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-006-112-015	CHUM	218	110	M	4.78	N/A	
HS1096-006-112-016	CHUM	223	124	M	4.02	N/A	
HS1096-006-112-017	CHUM	208	102	M	3.48	N/A	
HS1096-006-112-018	CHUM	194	76	F	2.43	N/A	
HS1096-006-112-019	CHUM	205	90	F	2.82	77	
HS1096-006-112-020	CHUM	208	102	M	3.32	77	
HS1096-006-112-021	CHUM	213	99	M	2.29	78	
HS1096-006-112-022	CHUM	209	96	M	2.08	76	
HS1096-006-112-023	CHUM	198	N/A	N/A	N/A	N/A	
HS1096-006-112-024	CHUM	240	N/A	N/A	N/A	N/A	
HS1096-006-112-025	CHUM	214	N/A	N/A	N/A	N/A	
HS1096-006-112-026	CHUM	198	N/A	N/A	N/A	N/A	
HS1096-006-112-027	CHUM	203	N/A	N/A	N/A	N/A	
HS1096-006-112-028	CHUM	190	N/A	N/A	N/A	N/A	
HS1096-006-112-029	CHUM	195	N/A	N/A	N/A	N/A	
HS1096-006-112-030	CHUM	211	N/A	N/A	N/A	N/A	
HS1096-006-112-031	CHUM	555	N/A	M	N/A	N/A	
HS1096-007-112-001	CHUM	211	88	F	0.43	77	
HS1096-007-112-002	CHUM	617	N/A	F	N/A	N/A	
HS1096-007-112-003	CHUM	620	N/A	F	N/A	N/A	
HS1096-007-112-004	CHUM	637	N/A	F	N/A	N/A	
HS1096-014-112-001	CHUM	196	80	M	2.40	N/A	
HS1096-014-112-002	CHUM	190	66	M	3.23	N/A	
HS1096-014-112-003	CHUM	193	74	F	1.55	N/A	
HS1096-015-112-001	CHUM	197	71	M	2.32	78	
HS1096-015-112-002	CHUM	220	110	M	1.23	76	
HS1096-015-112-003	CHUM	206	88	F	0.88	78	
HS1096-015-112-004	CHUM	196	76	F	0.99	79	
HS1096-015-112-005	CHUM	205	84	M	2.94	78	
HS1096-015-112-006	CHUM	167	42	M	0.20	78	
HS1096-021-112-001	CHUM	182	55	M	0.49	80	
HS1096-021-112-002	CHUM	164	38	M	0.17	80	
HS1096-022-112-001	CHUM	141	N/A	M	N/A	N/A	
HS1096-023-112-001	CHUM	156	N/A	F	N/A	N/A	
HS1096-023-112-002	CHUM	151	N/A	M	N/A	N/A	
HS1096-023-112-003	CHUM	173	N/A	F	N/A	N/A	
HS1096-023-112-004	CHUM	163	N/A	F	N/A	N/A	
HS1096-023-112-005	CHUM	160	N/A	M	N/A	N/A	
HS1096-023-112-006	CHUM	151	N/A	F	N/A	N/A	
HS1096-023-112-007	CHUM	171	N/A	F	N/A	N/A	
HS1096-023-112-008	CHUM	166	N/A	M	N/A	N/A	
HS1096-023-112-009	CHUM	178	N/A	F	N/A	N/A	
HS1096-023-112-010	CHUM	169	N/A	M	N/A	N/A	
HS1096-023-112-011	CHUM	178	N/A	F	N/A	N/A	
HS1096-023-112-012	CHUM	181	N/A	M	N/A	N/A	
HS1096-034-112-001	CHUM	252	164	M	10.40	N/A	
HS1096-034-112-002	CHUM	197	74	M	3.33	N/A	
HS1096-034-112-003	CHUM	187	64	F	2.60	N/A	
HS1096-036-112-001	CHUM	208	95	M	5.49	N/A	
HS1096-036-112-002	CHUM	188	65	F	1.55	N/A	

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-036-112-003	CHUM	166	42	F	2.36	N/A	
HS1096-036-112-004	CHUM	201	81	M	3.97	N/A	
HS1096-036-112-005	CHUM	174	N/A	F	N/A	N/A	
HS1096-036-112-006	CHUM	211	N/A	F	N/A	N/A	
HS1096-036-112-007	CHUM	198	N/A	F	N/A	N/A	
HS1096-036-112-008	CHUM	151	N/A	M	N/A	N/A	
HS1096-036-112-009	CHUM	174	N/A	M	N/A	N/A	
HS1096-038-112-001	CHUM	226	N/A	N/A	N/A	N/A	
HS1096-038-112-002	CHUM	208	86	M	3.26	N/A	
HS1096-038-112-003	CHUM	215	93	M	7.32	N/A	
HS1096-038-112-004	CHUM	210	97	M	4.72	N/A	
HS1096-038-112-005	CHUM	183	53	M	3.05	N/A	
HS1096-038-112-006	CHUM	158	34	M	0.29	N/A	
HS1096-041-112-001	CHUM	246	162	M	0.16	76	
HS1096-041-112-002	CHUM	206	88	M	0.32	78	
HS1096-041-112-003	CHUM	250	173	M	0.44	74	
HS1096-041-112-004	CHUM	203	90	M	0.35	77	
HS1096-041-112-005	CHUM	257	200	F	0.43	74	
HS1096-041-112-006	CHUM	245	157	F	0.78	76	
HS1096-041-112-007	CHUM	253	192	F	0.51	74	
HS1096-041-112-008	CHUM	239	146	M	0.31	75	
HS1096-041-112-009	CHUM	250	169	F	0.53	74	
HS1096-041-112-010	CHUM	261	N/A	N/A	N/A	N/A	
HS1096-041-112-011	CHUM	267	215	M	0.61	74	
HS1096-041-112-012	CHUM	254	179	M	0.68	75	
HS1096-041-112-013	CHUM	240	155	F	0.09	75	
HS1096-041-112-014	CHUM	255	194	M	0.39	73	
HS1096-041-112-015	CHUM	273	194	M	0.52	73	
HS1096-041-112-016	CHUM	233	134	M	2.04	76	
HS1096-041-112-017	CHUM	201	82	F	0.27	78	
HS1096-041-112-018	CHUM	236	142	M	0.50	75	
HS1096-041-112-019	CHUM	243	165	M	0.82	74	
HS1096-041-112-020	CHUM	248	N/A	N/A	N/A	N/A	
HS1096-041-112-021	CHUM	255	188	F	0.45	75	
HS1096-041-112-022	CHUM	205	84	F	0.12	79	
HS1096-041-112-023	CHUM	260	191	M	0.09	73	
HS1096-041-112-024	CHUM	241	156	M	0.05	75	
HS1096-041-112-025	CHUM	237	148	M	0.21	74	
HS1096-041-112-026	CHUM	245	168	M	0.68	74	
HS1096-041-112-027	CHUM	254	180	M	0.35	75	
HS1096-041-112-028	CHUM	262	197	M	0.14	73	
HS1096-041-112-029	CHUM	266	204	F	0.21	73	
HS1096-041-112-030	CHUM	223	N/A	N/A	N/A	N/A	
HS1096-041-112-031	CHUM	222	N/A	N/A	N/A	N/A	
HS1096-041-112-032	CHUM	249	N/A	N/A	N/A	N/A	
HS1096-041-112-033	CHUM	248	N/A	N/A	N/A	N/A	
HS1096-041-112-034	CHUM	252	N/A	N/A	N/A	N/A	
HS1096-041-112-035	CHUM	260	N/A	N/A	N/A	N/A	
HS1096-041-112-036	CHUM	251	N/A	N/A	N/A	N/A	
HS1096-041-112-037	CHUM	222	N/A	N/A	N/A	N/A	

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-041-112-038	CHUM	237	N/A	N/A	N/A	N/A	
HS1096-041-112-039	CHUM	232	N/A	N/A	N/A	N/A	
HS1096-041-112-040	CHUM	250	N/A	N/A	N/A	N/A	
HS1096-041-112-041	CHUM	199	N/A	N/A	N/A	N/A	
HS1096-041-112-042	CHUM	228	N/A	N/A	N/A	N/A	
HS1096-041-112-043	CHUM	253	N/A	N/A	N/A	N/A	
HS1096-041-112-044	CHUM	214	N/A	N/A	N/A	N/A	
HS1096-041-112-045	CHUM	218	N/A	N/A	N/A	N/A	
HS1096-041-112-046	CHUM	221	N/A	N/A	N/A	N/A	
HS1096-041-112-047	CHUM	249	N/A	N/A	N/A	N/A	
HS1096-041-112-048	CHUM	232	N/A	N/A	N/A	N/A	
HS1096-041-112-049	CHUM	242	N/A	N/A	N/A	N/A	
HS1096-041-112-050	CHUM	221	N/A	N/A	N/A	N/A	
HS1096-041-112-051	CHUM	216	N/A	N/A	N/A	N/A	
HS1096-041-112-052	CHUM	185	N/A	N/A	N/A	N/A	
HS1096-041-112-053	CHUM	244	N/A	N/A	N/A	N/A	
HS1096-041-112-054	CHUM	195	N/A	N/A	N/A	N/A	
HS1096-041-112-055	CHUM	225	N/A	N/A	N/A	N/A	
HS1096-041-112-056	CHUM	226	N/A	N/A	N/A	N/A	
HS1096-041-112-057	CHUM	220	N/A	N/A	N/A	N/A	
HS1096-041-112-058	CHUM	225	N/A	N/A	N/A	N/A	
HS1096-041-112-059	CHUM	222	N/A	N/A	N/A	N/A	
HS1096-041-112-060	CHUM	211	N/A	N/A	N/A	N/A	
HS1096-041-112-061	CHUM	252	N/A	N/A	N/A	N/A	
HS1096-041-112-062	CHUM	236	N/A	N/A	N/A	N/A	
HS1096-041-112-063	CHUM	239	N/A	N/A	N/A	N/A	
HS1096-041-112-064	CHUM	211	N/A	N/A	N/A	N/A	
HS1096-041-112-065	CHUM	197	N/A	N/A	N/A	N/A	
HS1096-041-112-066	CHUM	194	N/A	N/A	N/A	N/A	
HS1096-041-112-067	CHUM	218	N/A	N/A	N/A	N/A	
HS1096-041-112-068	CHUM	170	N/A	N/A	N/A	N/A	
HS1096-041-112-069	CHUM	221	N/A	N/A	N/A	N/A	
HS1096-041-112-070	CHUM	231	N/A	N/A	N/A	N/A	
HS1096-041-112-071	CHUM	214	N/A	N/A	N/A	N/A	
HS1096-041-112-072	CHUM	192	N/A	N/A	N/A	N/A	
HS1096-041-112-073	CHUM	232	N/A	N/A	N/A	N/A	
HS1096-041-112-074	CHUM	233	N/A	N/A	N/A	N/A	
HS1096-041-112-075	CHUM	221	N/A	N/A	N/A	N/A	
HS1096-041-112-076	CHUM	184	N/A	N/A	N/A	N/A	
HS1096-041-112-077	CHUM	220	N/A	N/A	N/A	N/A	
HS1096-041-112-078	CHUM	242	N/A	N/A	N/A	N/A	
HS1096-041-112-079	CHUM	212	N/A	N/A	N/A	N/A	
HS1096-041-112-080	CHUM	241	N/A	N/A	N/A	N/A	
HS1096-041-112-081	CHUM	233	N/A	N/A	N/A	N/A	
HS1096-041-112-082	CHUM	216	N/A	N/A	N/A	N/A	
HS1096-041-112-083	CHUM	230	N/A	N/A	N/A	N/A	
HS1096-041-112-084	CHUM	196	N/A	N/A	N/A	N/A	
HS1096-041-112-085	CHUM	215	N/A	N/A	N/A	N/A	
HS1096-041-112-086	CHUM	213	N/A	N/A	N/A	N/A	
HS1096-041-112-087	CHUM	215	N/A	N/A	N/A	N/A	

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Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-041-112-088	CHUM	182	N/A	N/A	N/A	N/A	
HS1096-041-112-089	CHUM	198	N/A	N/A	N/A	N/A	
HS1096-041-112-090	CHUM	240	N/A	N/A	N/A	N/A	
HS1096-041-112-091	CHUM	184	N/A	N/A	N/A	N/A	
HS1096-041-112-092	CHUM	213	N/A	N/A	N/A	N/A	
HS1096-041-112-093	CHUM	214	N/A	N/A	N/A	N/A	
HS1096-041-112-094	CHUM	235	N/A	N/A	N/A	N/A	
HS1096-041-112-095	CHUM	201	N/A	N/A	N/A	N/A	
HS1096-041-112-096	CHUM	209	N/A	N/A	N/A	N/A	
HS1096-041-112-097	CHUM	221	N/A	N/A	N/A	N/A	
HS1096-042-112-001	CHUM	200	80	M	0.84	78	
HS1096-042-112-002	CHUM	186	53	F	0.37	79	
HS1096-042-112-003	CHUM	213	95	M	0.41	79	
HS1096-042-112-004	CHUM	265	210	M	0.26	74	
HS1096-042-112-005	CHUM	202	82	F	0.95	79	
HS1096-042-112-006	CHUM	232	137	F	0.04	76	
HS1096-042-112-007	CHUM	194	N/A	N/A	N/A	N/A	
HS1096-044-112-001	CHUM	391	N/A	F	N/A	N/A	
HS1096-046-112-001	CHUM	235	N/A	F	N/A	N/A	
HS1096-046-112-002	CHUM	224	N/A	F	N/A	N/A	
HS1096-046-112-003	CHUM	202	N/A	M	N/A	N/A	
HS1096-046-112-004	CHUM	246	N/A	F	N/A	N/A	
HS1096-046-112-005	CHUM	233	N/A	M	N/A	N/A	
HS1096-049-112-001	CHUM	471	N/A	M	N/A	N/A	
HS1096-052-112-001	CHUM	403	N/A	M	N/A	N/A	
HS1096-054-112-001	CHUM	255	N/A	F	N/A	N/A	
HS1096-058-112-001	CHUM	415	N/A	M	N/A	N/A	
HS1096-058-112-002	CHUM	247	N/A	F	N/A	N/A	
HS1096-058-112-003	CHUM	193	N/A	M	N/A	N/A	
HS1096-058-112-004	CHUM	205	N/A	M	N/A	N/A	
HS1096-058-112-005	CHUM	237	145	F	0.28	N/A	
HS1096-058-112-006	CHUM	238	141	M	0.37	N/A	
HS1096-058-112-007	CHUM	234	118	M	0.26	N/A	
HS1096-058-112-008	CHUM	210	93	M	1.00	N/A	
HS1096-059-112-001	CHUM	269	206	M	1.57	73	
HS1096-059-112-002	CHUM	247	166	M	1.54	75	
HS1096-059-112-003	CHUM	241	154	F	1.73	72	
HS1096-059-112-004	CHUM	220	114	M	0.63	77	
HS1096-059-112-005	CHUM	233	116	F	0.75	74	
HS1096-059-112-006	CHUM	244	164	F	3.49	74	
HS1096-059-112-007	CHUM	221	109	M	0.65	72	
HS1096-059-112-008	CHUM	252	163	F	2.60	74	
HS1096-059-112-009	CHUM	221	118	M	0.91	75	
HS1096-059-112-010	CHUM	241	N/A	N/A	N/A	N/A	
HS1096-059-112-011	CHUM	240	N/A	M	N/A	N/A	
HS1096-059-112-012	CHUM	217	N/A	M	N/A	N/A	
HS1096-059-112-013	CHUM	257	N/A	F	N/A	N/A	
HS1096-059-112-014	CHUM	223	N/A	F	N/A	N/A	
HS1096-059-112-015	CHUM	232	N/A	M	N/A	N/A	
HS1096-059-112-016	CHUM	235	N/A	F	N/A	N/A	

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Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-059-112-017	CHUM	227	N/A	F	N/A	N/A	
HS1096-059-112-018	CHUM	230	N/A	F	N/A	N/A	
HS1096-059-112-019	CHUM	230	N/A	F	N/A	N/A	
HS1096-059-112-020	CHUM	210	N/A	F	N/A	N/A	
HS1096-059-112-021	CHUM	181	N/A	M	N/A	N/A	
HS1096-059-112-022	CHUM	205	N/A	F	N/A	N/A	
HS1096-059-112-023	CHUM	238	N/A	F	N/A	N/A	
HS1096-060-112-001	CHUM	242	157	M	3.99	74	
HS1096-060-112-002	CHUM	274	245	M	6.50	71	
HS1096-060-112-003	CHUM	240	147	M	2.53	76	
HS1096-060-112-004	CHUM	250	163	F	2.48	74	
HS1096-060-112-005	CHUM	262	196	M	4.55	73	
HS1096-060-112-006	CHUM	217	97	M	2.30	79	
HS1096-060-112-007	CHUM	260	189	M	6.12	72	
HS1096-060-112-008	CHUM	243	160	M	3.63	74	
HS1096-060-112-009	CHUM	234	147	M	3.70	73	
HS1096-060-112-010	CHUM	230	131	F	2.96	76	
HS1096-060-112-011	CHUM	228	122	F	3.03	75	
HS1096-061-112-001	CHUM	247	149	M	3.03	74	
HS1096-065-112-001	CHUM	215	88	F	0.75	N/A	
HS1096-065-112-002	CHUM	223	131	F	2.44	N/A	
HS1096-065-112-003	CHUM	250	158	F	0.68	N/A	
HS1096-065-112-004	CHUM	215	95	F	1.42	N/A	
HS1096-065-112-005	CHUM	212	111	M	1.57	N/A	
HS1096-072-112-001	CHUM	257	N/A	F	N/A	N/A	
HS1096-072-112-002	CHUM	210	N/A	F	N/A	N/A	
HS1096-073-112-001	CHUM	263	N/A	F	N/A	N/A	
HS1096-073-112-002	CHUM	227	N/A	F	N/A	N/A	
HS1096-073-112-003	CHUM	220	N/A	M	N/A	N/A	
HS1096-089-112-001	CHUM	194	N/A	M	N/A	N/A	
HS1096-004-115-001	COHO	270	N/A	M	N/A	N/A	
HS1096-005-115-001	COHO	250	156	F	4.05	N/A	
HS1096-005-115-002	COHO	256	185	F	0.88	N/A	
HS1096-005-115-003	COHO	264	204	F	0.74	N/A	
HS1096-005-115-004	COHO	223	116	M	5.76	N/A	18-20-54
HS1096-005-115-005	COHO	216	102	M	2.65	N/A	
HS1096-006-115-001	COHO	229	130	F	0.08	N/A	
HS1096-006-115-002	COHO	232	153	M	0.45	N/A	
HS1096-006-115-003	COHO	278	229	F	2.71	N/A	
HS1096-006-115-004	COHO	300	302	F	22.20	N/A	
HS1096-007-115-001	COHO	255	185	F	3.40	N/A	
HS1096-008-115-001	COHO	268	203	F	6.20	N/A	
HS1096-021-115-001	COHO	322	365	F	0.00	N/A	
HS1096-021-115-002	COHO	230	127	M	0.96	N/A	
HS1096-021-115-003	COHO	281	231	F	0.25	N/A	
HS1096-021-115-004	COHO	278	241	M	0.00	N/A	
HS1096-021-115-005	COHO	305	290	M	0.00	N/A	
HS1096-021-115-006	COHO	297	277	F	0.00	N/A	
HS1096-024-115-001	COHO	356	N/A	F	N/A	N/A	

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Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-024-115-002	COHO	326	N/A	M	N/A	N/A	
HS1096-034-115-001	COHO	282	248	M	0.41	N/A	
HS1096-038-115-001	COHO	340	N/A	M	N/A	N/A	
HS1096-039-115-001	COHO	345	N/A	M	N/A	N/A	
HS1096-039-115-002	COHO	261	N/A	F	N/A	N/A	
HS1096-040-115-001	COHO	333	N/A	F	N/A	N/A	
HS1096-040-115-002	COHO	322	N/A	M	N/A	N/A	
HS1096-040-115-003	COHO	335	N/A	M	N/A	N/A	
HS1096-040-115-004	COHO	333	405	F	4.52	N/A	
HS1096-040-115-005	COHO	335	428	F	5.24	N/A	
HS1096-044-115-001	COHO	312	N/A	F	N/A	N/A	
HS1096-048-115-001	COHO	328	N/A	M	N/A	N/A	
HS1096-050-115-001	COHO	368	N/A	M	N/A	N/A	
HS1096-052-115-001	COHO	351	N/A	M	N/A	N/A	
HS1096-052-115-002	COHO	352	N/A	F	N/A	N/A	
HS1096-052-115-003	COHO	342	N/A	F	N/A	N/A	
HS1096-052-115-004	COHO	323	N/A	F	N/A	N/A	
HS1096-053-115-001	COHO	350	N/A	M	N/A	N/A	
HS1096-053-115-002	COHO	316	N/A	F	N/A	N/A	
HS1096-054-115-001	COHO	327	391	F	4.76	N/A	
HS1096-054-115-002	COHO	337	N/A	F	N/A	N/A	
HS1096-054-115-003	COHO	342	499	F	4.49	N/A	
HS1096-054-115-004	COHO	348	463	F	2.10	N/A	
HS1096-054-115-005	COHO	346	476	M	4.88	N/A	
HS1096-054-115-006	COHO	346	N/A	F	N/A	N/A	
HS1096-054-115-007	COHO	342	N/A	M	N/A	N/A	
HS1096-054-115-008	COHO	326	N/A	M	N/A	N/A	
HS1096-055-115-001	COHO	324	N/A	M	N/A	N/A	
HS1096-058-115-001	COHO	362	603	F	0.00	N/A	
HS1096-066-115-001	COHO	314	368	M	1.29	N/A	
HS1096-073-115-001	COHO	275	252	F	0.00	N/A	
HS1096-076-115-001	COHO	294	245	M	0.46	N/A	
HS1096-088-115-001	COHO	298	N/A	F	N/A	N/A	
HS1096-089-115-001	COHO	309	N/A	F	N/A	N/A	
HS1096-001-108-001	PINK	178	49	M	0.02	77	
HS1096-001-108-002	PINK	176	48	F	0.39	76	
HS1096-001-108-003	PINK	187	59	M	0.02	77	
HS1096-001-108-004	PINK	207	83	F	0.79	75	
HS1096-001-108-005	PINK	207	80	F	0.04	75	
HS1096-003-108-001	PINK	192	N/A	M	N/A	N/A	
HS1096-003-108-002	PINK	190	N/A	F	N/A	N/A	
HS1096-003-108-003	PINK	191	N/A	M	N/A	N/A	
HS1096-003-108-004	PINK	192	N/A	F	N/A	N/A	
HS1096-004-108-001	PINK	215	95	F	9.91	74	
HS1096-004-108-002	PINK	211	89	M	3.38	75	
HS1096-004-108-003	PINK	207	86	M	6.61	75	
HS1096-004-108-004	PINK	209	84	M	0.58	77	
HS1096-004-108-005	PINK	192	67	F	5.92	75	
HS1096-004-108-006	PINK	199	79	F	1.64	75	

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HS1096-004-108-007	PINK	196	67	M	4.53	74	
HS1096-004-108-008	PINK	201	78	M	0.14	78	
HS1096-005-108-001	PINK	214	93	F	9.93	N/A	
HS1096-005-108-002	PINK	210	85	F	0.42	N/A	
HS1096-005-108-003	PINK	205	80	F	11.00	N/A	
HS1096-005-108-004	PINK	217	89	M	12.18	N/A	
HS1096-005-108-005	PINK	197	74	M	5.53	N/A	
HS1096-005-108-006	PINK	203	81	F	6.45	N/A	
HS1096-005-108-007	PINK	183	54	F	0.79	N/A	
HS1096-005-108-008	PINK	215	87	F	1.15	N/A	
HS1096-005-108-009	PINK	223	99	F	11.85	N/A	
HS1096-005-108-010	PINK	203	84	M	9.93	N/A	
HS1096-005-108-011	PINK	211	N/A	M	N/A	N/A	
HS1096-005-108-012	PINK	198	N/A	M	N/A	N/A	
HS1096-005-108-013	PINK	181	N/A	M	N/A	N/A	
HS1096-005-108-014	PINK	222	N/A	M	N/A	N/A	
HS1096-005-108-015	PINK	209	N/A	F	N/A	N/A	
HS1096-005-108-016	PINK	191	N/A	N/A	N/A	N/A	
HS1096-005-108-017	PINK	186	N/A	N/A	N/A	N/A	
HS1096-005-108-018	PINK	215	N/A	N/A	N/A	N/A	
HS1096-005-108-019	PINK	193	N/A	N/A	N/A	N/A	
HS1096-005-108-020	PINK	206	N/A	N/A	N/A	N/A	
HS1096-005-108-021	PINK	210	N/A	N/A	N/A	N/A	
HS1096-005-108-022	PINK	231	N/A	N/A	N/A	N/A	
HS1096-005-108-023	PINK	226	N/A	N/A	N/A	N/A	
HS1096-005-108-024	PINK	188	N/A	N/A	N/A	N/A	
HS1096-005-108-025	PINK	216	N/A	N/A	N/A	N/A	
HS1096-005-108-026	PINK	194	N/A	N/A	N/A	N/A	
HS1096-005 108-027	PINK	215	N/A	N/A	N/A	N/A	
HS1096-005-108-028	PINK	215	N/A	N/A	N/A	N/A	
HS1096-005-108-029	PINK	174	N/A	N/A	N/A	N/A	
HS1096-005-108-030	PINK	208	N/A	N/A	N/A	N/A	
HS1096-006-108-001	PINK	213	95	F	1.38	77	
HS1096-006-108-002	PINK	181	55	M	1.27	78	
HS1096-006-108-003	PINK	185	63	M	0.41	77	
HS1096-006-108-004	PINK	172	46	M	0.25	79	
HS1096-006-108-005	PINK	191	73	F	0.95	73	
HS1096-006-108-006	PINK	208	93	M	2.99	77	
HS1096-006-108-007	PINK	197	74	F	0.83	77	
HS1096-007-108-001	PINK	201	75	F	2.43	77	
HS1096-011-108-001	PINK	193	72	M	0.15	N/A	
HS1096-011-108-002	PINK	208	78	M	0.22	N/A	
HS1096-011-108-003	PINK	188	60	M	0.20	N/A	
HS1096-011-108-004	PINK	189	60	F	0.05	N/A	
HS1096-011-108-005	PINK	190	72	F	1.81	N/A	
HS1096-011-108-006	PINK	204	84	F	0.11	N/A	
HS1096-011-108-007	PINK	204	86	M	0.53	N/A	
HS1096-011-108-008	PINK	189	68	M	0.06	N/A	
HS1096-011-108-009	PINK	200	65	F	0.13	N/A	
HS1096-011-108-010	PINK	199	72	M	1.34	N/A	

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-011-108-011	PINK	192	63	M	0.22	N/A	
HS1096-011-108-012	PINK	192	68	M	0.51	75	
HS1096-011-108-013	PINK	197	76	F	0.21	75	
HS1096-011-108-014	PINK	191	69	F	1.30	76	
HS1096-011-108-015	PINK	194	70	M	0.87	75	
HS1096-011-108-016	PINK	190	65	F	0.27	76	
HS1096-011-108-017	PINK	195	73	M	0.34	76	
HS1096-011-108-018	PINK	198	71	M	0.14	77	
HS1096-011-108-019	PINK	196	76	F	0.33	76	
HS1096-011-108-020	PINK	197	N/A	M	N/A	N/A	
HS1096-011-108-021	PINK	198	N/A	M	N/A	N/A	
HS1096-011-108-022	PINK	227	N/A	M	N/A	N/A	
HS1096-011-108-023	PINK	191	N/A	F	N/A	N/A	
HS1096-011-108-024	PINK	199	N/A	M	N/A	N/A	
HS1096-011-108-025	PINK	202	N/A	M	N/A	N/A	
HS1096-011-108-026	PINK	200	N/A	F	N/A	N/A	
HS1096-011-108-027	PINK	198	N/A	F	N/A	N/A	
HS1096-011-108-028	PINK	197	N/A	F	N/A	N/A	
HS1096-011-108-029	PINK	195	N/A	F	N/A	N/A	
HS1096-011-108-030	PINK	199	N/A	F	N/A	N/A	
HS1096-011-108-031	PINK	195	N/A	F	N/A	N/A	
HS1096-011-108-032	PINK	195	N/A	F	N/A	N/A	
HS1096-011-108-033	PINK	186	N/A	M	N/A	N/A	
HS1096-011-108-034	PINK	185	N/A	F	N/A	N/A	
HS1096-011-108-035	PINK	194	N/A	F	N/A	N/A	
HS1096-011-108-036	PINK	204	N/A	M	N/A	N/A	
HS1096-011-108-037	PINK	201	N/A	M	N/A	N/A	
HS1096-011-108-038	PINK	200	N/A	M	N/A	N/A	
HS1096-011-108-039	PINK	187	N/A	F	N/A	N/A	
HS1096-011-108-040	PINK	201	N/A	F	N/A	N/A	
HS1096-011-108-041	PINK	198	N/A	F	N/A	N/A	
HS1096-011-108-042	PINK	189	N/A	M	N/A	N/A	
HS1096-011-108-043	PINK	196	N/A	M	N/A	N/A	
HS1096-011-108-044	PINK	216	N/A	M	N/A	N/A	
HS1096-011-108-045	PINK	195	N/A	M	N/A	N/A	
HS1096-011-108-046	PINK	192	64	F	0.13	77	
HS1096-011-108-047	PINK	175	N/A	M	N/A	N/A	
HS1096-011-108-048	PINK	191	N/A	F	N/A	N/A	
HS1096-011-108-049	PINK	189	N/A	M	N/A	N/A	
HS1096-011-108-050	PINK	198	N/A	F	N/A	N/A	
HS1096-011-108-051	PINK	186	N/A	F	N/A	N/A	
HS1096-011-108-052	PINK	195	N/A	M	N/A	N/A	
HS1096-011-108-053	PINK	187	N/A	F	N/A	N/A	
HS1096-011-108-054	PINK	186	N/A	F	N/A	N/A	
HS1096-011-108-055	PINK	206	N/A	M	N/A	N/A	
HS1096-011-108-056	PINK	195	N/A	M	N/A	N/A	
HS1096-011-108-057	PINK	192	N/A	M	N/A	N/A	
HS1096-011-108-058	PINK	180	N/A	F	N/A	N/A	
HS1096-011-108-059	PINK	192	N/A	F	N/A	N/A	
HS1096-011-108-060	PINK	207	N/A	F	N/A	N/A	

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-011-108-061	PINK	186	N/A	F	N/A	N/A	
HS1096-011-108-062	PINK	195	N/A	M	N/A	N/A	
HS1096-011-108-063	PINK	212	N/A	M	N/A	N/A	
HS1096-011-108-064	PINK	195	N/A	M	N/A	N/A	
HS1096-011-108-065	PINK	185	N/A	M	N/A	N/A	
HS1096-011-108-066	PINK	195	N/A	F	N/A	N/A	
HS1096-011-108-067	PINK	174	N/A	F	N/A	N/A	
HS1096-011-108-068	PINK	193	N/A	F	N/A	N/A	
HS1096-011-108-069	PINK	195	N/A	M	N/A	N/A	
HS1096-011-108-070	PINK	179	N/A	M	N/A	N/A	
HS1096-011-108-071	PINK	192	N/A	F	N/A	N/A	
HS1096-011-108-072	PINK	195	N/A	M	N/A	N/A	
HS1096-011-108-073	PINK	190	N/A	F	N/A	N/A	
HS1096-011-108-074	PINK	185	N/A	F	N/A	N/A	
HS1096-011-108-075	PINK	179	N/A	M	N/A	N/A	
HS1096-011-108-076	PINK	184	N/A	F	N/A	N/A	
HS1096-011-108-077	PINK	192	N/A	F	N/A	N/A	
HS1096-011-108-078	PINK	181	N/A	M	N/A	N/A	
HS1096-011-108-079	PINK	191	N/A	M	N/A	N/A	
HS1096-011-108-080	PINK	186	N/A	F	N/A	N/A	
HS1096-011-108-081	PINK	184	N/A	M	N/A	N/A	
HS1096-011-108-082	PINK	185	N/A	F	N/A	N/A	
HS1096-011-108-083	PINK	184	N/A	F	N/A	N/A	
HS1096-011-108-084	PINK	195	N/A	M	N/A	N/A	
HS1096-011-108-085	PINK	189	N/A	F	N/A	N/A	
HS1096-012-108-001	PINK	183	52	F	0.25	77	
HS1096-012-108-002	PINK	198	77	M	1.96	74	
HS1096-012-108-003	PINK	191	68	F	1.69	75	
HS1096-012-108-004	PINK	199	69	M	0.20	77	
HS1096-013-108-001	PINK	191	N/A	M	N/A	N/A	
HS1096-013-108-002	PINK	208	N/A	F	N/A	N/A	
HS1096-013-108-003	PINK	193	N/A	M	N/A	N/A	
HS1096-013-108-004	PINK	189	N/A	F	N/A	N/A	
HS1096-013-108-005	PINK	198	N/A	M	N/A	N/A	
HS1096-013-108-006	PINK	178	N/A	M	N/A	N/A	
HS1096-014-108-001	PINK	186	60	M	1.68	78	
HS1096-014-108-002	PINK	195	75	M	4.91	76	
HS1096-014-108-003	PINK	185	61	F	0.63	77	
HS1096-014-108-004	PINK	193	65	M	0.70	77	
HS1096-014-108-005	PINK	182	57	F	1.24	78	
HS1096-014-108-006	PINK	190	66	F	1.20	79	
HS1096-014-108-007	PINK	196	63	F	1.62	78	
HS1096-014-108-008	PINK	180	51	F	2.41	78	
HS1096-014-108-009	PINK	185	56	F	1.34	78	
HS1096-014-108-010	PINK	190	62	M	3.54	76	
HS1096-014-108-011	PINK	182	57	M	3.00	N/A	
HS1096-014-108-012	PINK	182	58	F	3.33	N/A	
HS1096-014-108-013	PINK	195	65	F	3.00	N/A	
HS1096-014-108-014	PINK	198	66	M	0.89	N/A	
HS1096-014-108-015	PINK	170	42	F	1.25	N/A	

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-014-108-016	PINK	183	55	F	3.20	N/A	
HS1096-014-108-017	PINK	190	65	M	5.23	N/A	
HS1096-014-108-018	PINK	193	67	M	3.18	N/A	
HS1096-014-108-019	PINK	173	43	M	1.38	N/A	
HS1096-014-108-020	PINK	186	N/A	N/A	N/A	N/A	
HS1096-014-108-021	PINK	182	N/A	F	N/A	N/A	
HS1096-014-108-022	PINK	198	N/A	M	N/A	N/A	
HS1096-014-108-023	PINK	190	N/A	M	N/A	N/A	
HS1096-014-108-024	PINK	161	N/A	M	N/A	N/A	
HS1096-014-108-025	PINK	196	N/A	F	N/A	N/A	
HS1096-014-108-026	PINK	200	N/A	F	N/A	N/A	
HS1096-014-108-027	PINK	187	N/A	M	N/A	N/A	
HS1096-014-108-028	PINK	193	N/A	M	N/A	N/A	
HS1096-014-108-029	PINK	195	N/A	F	N/A	N/A	
HS1096-014-108-030	PINK	188	N/A	F	N/A	N/A	
HS1096-014-108-031	PINK	195	N/A	M	N/A	N/A	
HS1096-014-108-032	PINK	206	N/A	M	N/A	N/A	
HS1096-014-108-033	PINK	186	N/A	M	N/A	N/A	
HS1096-014-108-034	PINK	204	N/A	F	N/A	N/A	
HS1096-014-108-035	PINK	180	N/A	F	N/A	N/A	
HS1096-014-108-036	PINK	174	N/A	M	N/A	N/A	
HS1096-014-108-037	PINK	174	N/A	M	N/A	N/A	
HS1096-014-108-038	PINK	183	N/A	F	N/A	N/A	
HS1096-014-108-039	PINK	196	N/A	M	N/A	N/A	
HS1096-014-108-040	PINK	197	N/A	M	N/A	N/A	
HS1096-014-108-041	PINK	188	N/A	M	N/A	N/A	
HS1096-014-108-042	PINK	187	N/A	M	N/A	N/A	
HS1096-014-108-043	PINK	182	N/A	M	N/A	N/A	
HS1096-014-108-044	PINK	188	N/A	M	N/A	N/A	
HS1096-014-108-045	PINK	191	N/A	F	N/A	N/A	
HS1096-014-108-046	PINK	196	N/A	M	N/A	N/A	
HS1096-014-108-047	PINK	203	N/A	M	N/A	N/A	
HS1096-014-108-048	PINK	173	N/A	F	N/A	N/A	
HS1096-014-108-049	PINK	200	N/A	M	N/A	N/A	
HS1096-014-108-050	PINK	193	N/A	F	N/A	N/A	
HS1096-014-108-051	PINK	193	N/A	M	N/A	N/A	
HS1096-014-108-052	PINK	181	N/A	F	N/A	N/A	
HS1096-014-108-053	PINK	189	N/A	F	N/A	N/A	
HS1096-014-108-054	PINK	175	N/A	M	N/A	N/A	
HS1096-014-108-055	PINK	197	N/A	M	N/A	N/A	
HS1096-014-108-056	PINK	203	N/A	M	N/A	N/A	
HS1096-014-108-057	PINK	182	N/A	F	N/A	N/A	
HS1096-014-108-058	PINK	173	N/A	M	N/A	N/A	
HS1096-014-108-059	PINK	188	N/A	M	N/A	N/A	
HS1096-014-108-060	PINK	190	N/A	M	N/A	N/A	
HS1096-014-108-061	PINK	203	N/A	F	N/A	N/A	
HS1096-014-108-062	PINK	193	N/A	F	N/A	N/A	
HS1096-014-108-063	PINK	178	N/A	M	N/A	N/A	
HS1096-014-108-064	PINK	215	N/A	M	N/A	N/A	
HS1096-014-108-065	PINK	200	N/A	M	N/A	N/A	

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-014-108-066	PINK	170	N/A	M	N/A	N/A	
HS1096-014-108-067	PINK	195	N/A	F	N/A	N/A	
HS1096-014-108-068	PINK	179	N/A	M	N/A	N/A	
HS1096-014-108-069	PINK	202	N/A	M	N/A	N/A	
HS1096-014-108-070	PINK	200	N/A	M	N/A	N/A	
HS1096-014-108-071	PINK	191	N/A	F	N/A	N/A	
HS1096-014-108-072	PINK	192	N/A	F	N/A	N/A	
HS1096-014-108-073	PINK	192	N/A	F	N/A	N/A	
HS1096-014-108-074	PINK	181	N/A	M	N/A	N/A	
HS1096-014-108-075	PINK	173	N/A	M	N/A	N/A	
HS1096-014-108-076	PINK	176	N/A	F	N/A	N/A	
HS1096-014-108-077	PINK	186	N/A	F	N/A	N/A	
HS1096-014-108-078	PINK	201	N/A	M	N/A	N/A	
HS1096-014-108 079	PINK	186	N/A	M	N/A	N/A	
HS1096-014-108-080	PINK	187	N/A	F	N/A	N/A	
HS1096-014-108-081	PINK	183	N/A	M	N/A	N/A	
HS1096-014-108-082	PINK	178	N/A	F	N/A	N/A	
HS1096-014-108-083	PINK	192	N/A	F	N/A	N/A	
HS1096-014-108-084	PINK	185	N/A	M	N/A	N/A	
HS1096-014-108-085	PINK	189	N/A	M	N/A	N/A	
HS1096-014-108-086	PINK	175	N/A	F	N/A	N/A	
HS1096-014-108-087	PINK	181	N/A	M	N/A	N/A	
HS1096-014-108-088	PINK	182	N/A	F	N/A	N/A	
HS1096-014-108-089	PINK	189	N/A	F	N/A	N/A	
HS1096-014-108-090	PINK	183	N/A	M	N/A	N/A	
HS1096-014-108-091	PINK	175	N/A	F	N/A	N/A	
HS1096-014-108-092	PINK	186	N/A	F	N/A	N/A	
HS1096-014-108-093	PINK	189	N/A	M	N/A	N/A	
HS1096-015-108-001	PINK	194	64	F	1.02	N/A	
HS1096-015-108-002	PINK	203	79	F	1.03	N/A	
HS1096-015-108-003	PINK	177	50	F	0.73	N/A	
HS1096-015-108-004	PINK	178	46	M	0.84	N/A	
HS1096-015-108-005	PINK	182	49	M	0.85	N/A	
HS1096-015-108-006	PINK	188	59	M	1.02	N/A	
HS1096-015-108-007	PINK	181	48	M	1.17	N/A	
HS1096-015-108-008	PINK	199	60	F	0.36	N/A	
HS1096-015-108-009	PINK	205	77	M	1.49	N/A	
HS1096-015-108-010	PINK	187	54	F	1.99	N/A	
HS1096-015-108-011	PINK	181	45	F	0.93	N/A	
HS1096-015-108-012	PINK	194	66	F	0.43	N/A	
HS1096-015-108-013	PINK	192	61	F	1.08	N/A	
HS1096-015-108-014	PINK	183	59	F	0.89	N/A	
HS1096-015-108-015	PINK	157	36	F	0.75	N/A	
HS1096-015-108-016	PINK	178	48	F	1.77	N/A	
HS1096-015-108-017	PINK	197	63	F	1.39	N/A	
HS1096-015-108-018	PINK	191	56	M	0.36	N/A	
HS1096-015-108-019	PINK	186	54	F	1.72	N/A	
HS1096-015-108-020	PINK	189	57	F	0.84	N/A	
HS1096-015-108-021	PINK	192	N/A	F	N/A	N/A	
HS1096-015-108-022	PINK	177	N/A	F	N/A	N/A	

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-015-108-023	PINK	192	N/A	F	N/A	N/A	
HS1096-015-108-024	PINK	181	N/A	M	N/A	N/A	
HS1096-015-108-025	PINK	170	N/A	F	N/A	N/A	
HS1096-015-108-026	PINK	184	N/A	F	N/A	N/A	
HS1096-015-108-027	PINK	202	N/A	M	N/A	N/A	
HS1096-015-108-028	PINK	178	N/A	F	N/A	N/A	
HS1096-015-108-029	PINK	206	N/A	F	N/A	N/A	
HS1096-015-108-030	PINK	189	N/A	M	N/A	N/A	
HS1096-015-108-031	PINK	200	N/A	F	N/A	N/A	
HS1096-015-108-032	PINK	189	N/A	M	N/A	N/A	
HS1096-015-108-033	PINK	185	N/A	F	N/A	N/A	
HS1096-015-108-034	PINK	178	N/A	M	N/A	N/A	
HS1096-015-108-035	PINK	192	N/A	M	N/A	N/A	
HS1096-015-108-036	PINK	203	N/A	M	N/A	N/A	
HS1096-015-108-037	PINK	186	N/A	F	N/A	N/A	
HS1096-015-108-038	PINK	212	N/A	F	N/A	N/A	
HS1096-015-108-039	PINK	188	N/A	F	N/A	N/A	
HS1096-015-108-040	PINK	184	N/A	F	N/A	N/A	
HS1096-015-108-041	PINK	195	N/A	F	N/A	N/A	
HS1096-015-108-042	PINK	185	N/A	M	N/A	N/A	
HS1096-021-108-001	PINK	179	48	F	1.49	78	
HS1096-022-108-001	PINK	170	39	M	0.43	78	
HS1096-023-108-001	PINK	177	N/A	M	N/A	N/A	
HS1096-023-108-002	PINK	173	N/A	F	N/A	N/A	
HS1096-023-108-003	PINK	163	N/A	F	N/A	N/A	
HS1096-034-108-001	PINK	185	55	M	0.75	78	
HS1096-034-108-002	PINK	220	96	F	6.18	75	
HS1096-034-108-003	PINK	185	50	M	2.51	77	
HS1096-034-108-004	PINK	195	66	F	3.23	77	
HS1096-034-108-005	PINK	192	66	F	3.48	77	
HS1096-034-108-006	PINK	195	69	M	4.18	77	
HS1096-034-108-007	PINK	170	36	F	1.33	78	
HS1096-034-108-008	PINK	201	70	F	4.72	76	
HS1096-034-108-009	PINK	204	70	F	5.10	77	
HS1096-036-108-001	PINK	196	N/A	M	N/A	N/A	
HS1096-036-108-002	PINK	202	N/A	M	N/A	N/A	
HS1096-036-108-003	PINK	195	N/A	M	N/A	N/A	
HS1096-036-108-004	PINK	187	N/A	M	N/A	N/A	
HS1096-036-108-005	PINK	176	N/A	M	N/A	N/A	
HS1096-036-108-006	PINK	163	N/A	N/A	N/A	N/A	
HS1096-036-108-007	PINK	178	44	F	0.76	78	
HS1096-036-108-008	PINK	202	70	F	2.77	77	
HS1096-036-108-009	PINK	196	62	M	3.43	77	
HS1096-036-108-010	PINK	167	37	F	1.38	78	
HS1096-036-108-011	PINK	192	55	M	1.68	77	
HS1096-036-108-012	PINK	192	62	M	4.72	76	
HS1096-036-108-013	PINK	178	42	M	0.21	79	
HS1096-036-108-014	PINK	189	58	F	3.66	77	
HS1096-036-108-015	PINK	209	78	F	2.11	76	
HS1096-036-108-016	PINK	209	72	F	4.92	77	

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-037-108-001	PINK	178	N/A	M	N/A	N/A	
HS1096-038-108-001	PINK	219	N/A	F	N/A	N/A	
HS1096-038-108-002	PINK	202	N/A	F	N/A	N/A	
HS1096-038-108-003	PINK	220	N/A	M	N/A	N/A	
HS1096-038-108-004	PINK	201	N/A	F	N/A	N/A	
HS1096-038-108-005	PINK	189	N/A	M	N/A	N/A	
HS1096-039-108-001	PINK	206	N/A	M	N/A	N/A	
HS1096-041-108-001	PINK	188	59	F	0.04	N/A	
HS1096-041-108-002	PINK	191	61	F	0.05	N/A	
HS1096-041-108-003	PINK	171	40	M	0.00	N/A	
HS1096-041-108-004	PINK	214	96	M	0.36	N/A	
HS1096-041-108-005	PINK	196	65	F	0.13	N/A	
HS1096-041-108-006	PINK	173	45	M	0.03	N/A	
HS1096-042-108-001	PINK	204	73	M	0.41	N/A	
HS1096-042-108-002	PINK	227	110	F	0.68	N/A	
HS1096-042-108-003	PINK	222	105	F	0.38	N/A	
HS1096-042-108-004	PINK	218	89	F	0.77	N/A	
HS1096-042-108-005	PINK	216	84	F	0.18	N/A	
HS1096-042-108-006	PINK	186	56	F	0.59	N/A	
HS1096-042-108-007	PINK	200	75	M	0.26	N/A	
HS1096-044-108-001	PINK	223	106	F	0.08	N/A	
HS1096-044-108-002	PINK	262	160	F	0.03	N/A	
HS1096-044-108-003	PINK	222	97	M	0.12	N/A	
HS1096-044-108-004	PINK	238	114	F	0.05	N/A	
HS1096-044-108-005	PINK	231	117	M	0.26	N/A	
HS1096-044-108-006	PINK	208	79	M	0.05	N/A	
HS1096-044-108-007	PINK	251	149	F	0.01	N/A	
HS1096-044-108-008	PINK	253	146	F	0.05	N/A	
HS1096-044-108-009	PINK	200	66	F	0.07	N/A	
HS1096-044-108-010	PINK	227	N/A	N/A	N/A	N/A	
HS1096-044-108-011	PINK	234	123	F	0.18	77	
HS1096-044-108-012	PINK	230	115	M	0.30	78	
HS1096-044-108-013	PINK	224	106	F	0.12	77	
HS1096-044-108-014	PINK	231	115	F	0.03	78	
HS1096-044-108-015	PINK	249	134	M	0.09	77	
HS1096-044-108-016	PINK	238	128	F	0.13	75	
HS1096-044-108-017	PINK	211	87	F	0.28	78	
HS1096-044-108-018	PINK	243	139	M	0.07	74	
HS1096-044-108-019	PINK	228	109	M	0.09	78	
HS1096-044-108-020	PINK	223	N/A	N/A	N/A	N/A	
HS1096-044-108-021	PINK	248	137	F	0.00	76	
HS1096-044-108-022	PINK	232	111	M	0.07	76	
HS1096-044-108-023	PINK	239	129	M	0.00	75	
HS1096-044-108-024	PINK	228	99	F	0.00	78	
HS1096-044-108-025	PINK	235	122	M	0.00	77	
HS1096-044-108-026	PINK	245	N/A	M	N/A	N/A	
HS1096-044-108-027	PINK	252	N/A	F	N/A	N/A	
HS1096-044-108-028	PINK	229	N/A	M	N/A	N/A	
HS1096-045-108-001	PINK	215	79	M	0.01	79	
HS1096-046-108-001	PINK	248	N/A	N/A	N/A	N/A	

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Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-046-108-002	PINK	258	N/A	N/A	N/A	N/A	
HS1096-046-108-003	PINK	244	N/A	N/A	N/A	N/A	
HS1096-046-108-004	PINK	256	N/A	N/A	N/A	N/A	
HS1096-046-108-005	PINK	245	N/A	N/A	N/A	N/A	
HS1096-046-108-006	PINK	243	N/A	N/A	N/A	N/A	
HS1096-046-108-007	PINK	273	N/A	N/A	N/A	N/A	
HS1096-046-108-008	PINK	252	N/A	N/A	N/A	N/A	
HS1096-046-108-009	PINK	254	N/A	N/A	N/A	N/A	
HS1096-046-108-010	PINK	255	N/A	N/A	N/A	N/A	
HS1096-046-108-011	PINK	245	N/A	N/A	N/A	N/A	
HS1096-046-108-012	PINK	242	N/A	N/A	N/A	N/A	
HS1096-046-108-013	PINK	252	N/A	N/A	N/A	N/A	
HS1096-046-108-014	PINK	255	N/A	N/A	N/A	N/A	
HS1096-046-108-015	PINK	244	N/A	N/A	N/A	N/A	
HS1096-046-108-016	PINK	264	N/A	N/A	N/A	N/A	
HS1096-046-108-017	PINK	265	N/A	N/A	N/A	N/A	
HS1096-046-108-018	PINK	267	N/A	N/A	N/A	N/A	
HS1096-046-108-019	PINK	237	N/A	N/A	N/A	N/A	
HS1096-046-108-020	PINK	246	N/A	N/A	N/A	N/A	
HS1096-046-108-021	PINK	233	N/A	N/A	N/A	N/A	
HS1096-046-108-022	PINK	235	N/A	N/A	N/A	N/A	
HS1096-046-108-023	PINK	229	N/A	N/A	N/A	N/A	
HS1096-046-108-024	PINK	244	N/A	N/A	N/A	N/A	
HS1096-046-108-025	PINK	241	N/A	N/A	N/A	N/A	
HS1096-046-108-026	PINK	251	N/A	N/A	N/A	N/A	
HS1096-046-108-027	PINK	270	N/A	N/A	N/A	N/A	
HS1096-046-108-028	PINK	259	N/A	N/A	N/A	N/A	
HS1096-046-108-029	PINK	263	N/A	N/A	N/A	N/A	
HS1096-046-108-030	PINK	238	N/A	N/A	N/A	N/A	
HS1096-046-108-031	PINK	262	N/A	N/A	N/A	N/A	
HS1096-046-108-032	PINK	260	N/A	N/A	N/A	N/A	
HS1096-046-108-033	PINK	238	N/A	N/A	N/A	N/A	
HS1096-046-108-034	PINK	260	N/A	N/A	N/A	N/A	
HS1096-046-108-035	PINK	259	N/A	N/A	N/A	N/A	
HS1096-046-108-036	PINK	260	N/A	N/A	N/A	N/A	
HS1096-046-108-037	PINK	268	N/A	N/A	N/A	N/A	
HS1096-046-108-038	PINK	257	N/A	N/A	N/A	N/A	
HS1096-046-108-039	PINK	250	N/A	N/A	N/A	N/A	
HS1096-046-108-040	PINK	259	N/A	N/A	N/A	N/A	
HS1096-046-108-041	PINK	239	N/A	N/A	N/A	N/A	
HS1096-046-108-042	PINK	262	N/A	N/A	N/A	N/A	
HS1096-046-108-043	PINK	249	N/A	N/A	N/A	N/A	
HS1096-046-108-044	PINK	272	N/A	N/A	N/A	N/A	
HS1096-046-108-045	PINK	243	N/A	N/A	N/A	N/A	
HS1096-046-108-046	PINK	244	N/A	N/A	N/A	N/A	
HS1096-046-108-047	PINK	239	N/A	N/A	N/A	N/A	
HS1096-046-108-048	PINK	246	N/A	N/A	N/A	N/A	
HS1096-046-108-049	PINK	216	N/A	N/A	N/A	N/A	
HS1096-046-108-050	PINK	247	N/A	N/A	N/A	N/A	
HS1096-046-108-051	PINK	263	N/A	N/A	N/A	N/A	

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Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-046-108-052	PINK	230	N/A	N/A	N/A	N/A	
HS1096-046-108-053	PINK	247	N/A	N/A	N/A	N/A	
HS1096-046-108-054	PINK	235	N/A	N/A	N/A	N/A	
HS1096-046-108-055	PINK	236	N/A	N/A	N/A	N/A	
HS1096-046-108-056	PINK	238	N/A	N/A	N/A	N/A	
HS1096-046-108-057	PINK	250	N/A	N/A	N/A	N/A	
HS1096-046-108-058	PINK	245	N/A	N/A	N/A	N/A	
HS1096-046-108-059	PINK	250	N/A	N/A	N/A	N/A	
HS1096-046-108-060	PINK	241	N/A	N/A	N/A	N/A	
HS1096-046-108-061	PINK	242	N/A	N/A	N/A	N/A	
HS1096-046-108-062	PINK	240	N/A	N/A	N/A	N/A	
HS1096-046-108-063	PINK	242	N/A	N/A	N/A	N/A	
HS1096-046-108-064	PINK	253	N/A	N/A	N/A	N/A	
HS1096-046-108-065	PINK	242	N/A	N/A	N/A	N/A	
HS1096-046-108-066	PINK	257	N/A	N/A	N/A	N/A	
HS1096-046-108-067	PINK	242	N/A	N/A	N/A	N/A	
HS1096-046-108-068	PINK	239	N/A	N/A	N/A	N/A	
HS1096-046-108-069	PINK	254	N/A	N/A	N/A	N/A	
HS1096-046-108-070	PINK	232	N/A	N/A	N/A	N/A	
HS1096-046-108-071	PINK	225	N/A	N/A	N/A	N/A	
HS1096-046-108-072	PINK	265	N/A	N/A	N/A	N/A	
HS1096-046-108-073	PINK	240	N/A	N/A	N/A	N/A	
HS1096-046-108-074	PINK	233	N/A	N/A	N/A	N/A	
HS1096-046-108-075	PINK	241	N/A	N/A	N/A	N/A	
HS1096-046-108-076	PINK	254	N/A	N/A	N/A	N/A	
HS1096-046-108-077	PINK	247	N/A	N/A	N/A	N/A	
HS1096-046-108-078	PINK	272	N/A	N/A	N/A	N/A	
HS1096-046-108-079	PINK	229	N/A	N/A	N/A	N/A	
HS1096-046-108-080	PINK	254	N/A	N/A	N/A	N/A	
HS1096-046-108-081	PINK	229	N/A	N/A	N/A	N/A	
HS1096-046-108-082	PINK	255	N/A	N/A	N/A	N/A	
HS1096-046-108-083	PINK	244	N/A	N/A	N/A	N/A	
HS1096-046-108-084	PINK	220	N/A	N/A	N/A	N/A	
HS1096-046-108-085	PINK	245	N/A	N/A	N/A	N/A	
HS1096-046-108-086	PINK	260	N/A	N/A	N/A	N/A	
HS1096-046-108-087	PINK	245	N/A	N/A	N/A	N/A	
HS1096-046-108-088	PINK	255	N/A	N/A	N/A	N/A	
HS1096-046-108-089	PINK	231	N/A	N/A	N/A	N/A	
HS1096-046-108-090	PINK	253	N/A	N/A	N/A	N/A	
HS1096-046-108-091	PINK	234	N/A	N/A	N/A	N/A	
HS1096-046-108-092	PINK	233	N/A	N/A	N/A	N/A	
HS1096-046-108-093	PINK	214	N/A	N/A	N/A	N/A	
HS1096-046-108-094	PINK	232	N/A	N/A	N/A	N/A	
HS1096-046-108-095	PINK	227	N/A	N/A	N/A	N/A	
HS1096-046-108-096	PINK	254	N/A	N/A	N/A	N/A	
HS1096-046-108-097	PINK	262	N/A	N/A	N/A	N/A	
HS1096-046-108-098	PINK	234	N/A	N/A	N/A	N/A	
HS1096-046-108-099	PINK	228	N/A	N/A	N/A	N/A	
HS1096-046-108-100	PINK	244	N/A	N/A	N/A	N/A	
HS1096-046-108-101	PINK	233	N/A	N/A	N/A	N/A	

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Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-046-108-102	PINK	252	N/A	N/A	N/A	N/A	
HS1096-046-108-103	PINK	222	N/A	N/A	N/A	N/A	
HS1096-046-108-104	PINK	241	N/A	N/A	N/A	N/A	
HS1096-046-108-105	PINK	243	N/A	N/A	N/A	N/A	
HS1096-046-108-106	PINK	249	N/A	N/A	N/A	N/A	
HS1096-046-108-107	PINK	243	N/A	N/A	N/A	N/A	
HS1096-046-108-108	PINK	222	N/A	N/A	N/A	N/A	
HS1096-046-108-109	PINK	258	N/A	N/A	N/A	N/A	
HS1096-046-108-110	PINK	222	N/A	N/A	N/A	N/A	
HS1096-046-108-111	PINK	238	N/A	N/A	N/A	N/A	
HS1096-046-108-112	PINK	232	N/A	N/A	N/A	N/A	
HS1096-046-108-113	PINK	256	N/A	N/A	N/A	N/A	
HS1096-046-108-114	PINK	235	N/A	N/A	N/A	N/A	
HS1096-046-108-115	PINK	219	N/A	N/A	N/A	N/A	
HS1096-046-108-116	PINK	232	N/A	N/A	N/A	N/A	
HS1096-046-108-117	PINK	222	N/A	N/A	N/A	N/A	
HS1096-046-108-118	PINK	242	N/A	N/A	N/A	N/A	
HS1096-046-108-119	PINK	244	N/A	N/A	N/A	N/A	
HS1096-046-108-120	PINK	261	N/A	N/A	N/A	N/A	
HS1096-046-108-121	PINK	221	N/A	N/A	N/A	N/A	
HS1096-046-108-122	PINK	250	N/A	N/A	N/A	N/A	
HS1096-046-108-123	PINK	227	N/A	N/A	N/A	N/A	
HS1096-046-108-124	PINK	240	N/A	N/A	N/A	N/A	
HS1096-046-108-125	PINK	255	N/A	N/A	N/A	N/A	
HS1096-046-108-126	PINK	252	N/A	N/A	N/A	N/A	
HS1096-046-108-127	PINK	245	N/A	N/A	N/A	N/A	
HS1096-046-108-128	PINK	243	N/A	N/A	N/A	N/A	
HS1096-046-108-129	PINK	255	N/A	N/A	N/A	N/A	
HS1096-046-108-130	PINK	240	N/A	N/A	N/A	N/A	
HS1096-046-108-131	PINK	245	N/A	N/A	N/A	N/A	
HS1096-046-108-132	PINK	272	N/A	N/A	N/A	N/A	
HS1096-046-108-133	PINK	255	N/A	N/A	N/A	N/A	
HS1096-046-108-134	PINK	270	N/A	N/A	N/A	N/A	
HS1096-046-108-135	PINK	225	N/A	N/A	N/A	N/A	
HS1096-046-108-136	PINK	250	N/A	N/A	N/A	N/A	
HS1096-046-108-137	PINK	240	N/A	N/A	N/A	N/A	
HS1096-046-108-138	PINK	206	N/A	N/A	N/A	N/A	
HS1096-046-108-139	PINK	256	N/A	N/A	N/A	N/A	
HS1096-046-108-140	PINK	257	N/A	N/A	N/A	N/A	
HS1096-046-108-141	PINK	249	N/A	N/A	N/A	N/A	
HS1096-046-108-142	PINK	222	N/A	N/A	N/A	N/A	
HS1096-046-108-143	PINK	226	N/A	N/A	N/A	N/A	
HS1096-046-108-144	PINK	250	N/A	N/A	N/A	N/A	
HS1096-046-108-145	PINK	236	N/A	N/A	N/A	N/A	
HS1096-046-108-146	PINK	229	N/A	N/A	N/A	N/A	
HS1096-046-108-147	PINK	224	N/A	N/A	N/A	N/A	
HS1096-046-108-148	PINK	229	N/A	N/A	N/A	N/A	
HS1096-046-108-149	PINK	227	N/A	N/A	N/A	N/A	
HS1096-046-108-150	PINK	263	N/A	N/A	N/A	N/A	
HS1096-046-108-151	PINK	235	N/A	N/A	N/A	N/A	

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-046-108-152	PINK	235	N/A	N/A	N/A	N/A	
HS1096-046-108-153	PINK	215	N/A	N/A	N/A	N/A	
HS1096-046-108-154	PINK	255	N/A	N/A	N/A	N/A	
HS1096-046-108-155	PINK	257	N/A	N/A	N/A	N/A	
HS1096-046-108-156	PINK	245	N/A	N/A	N/A	N/A	
HS1096-046-108-157	PINK	205	N/A	N/A	N/A	N/A	
HS1096-046-108-158	PINK	248	N/A	N/A	N/A	N/A	
HS1096-046-108-159	PINK	236	N/A	N/A	N/A	N/A	
HS1096-046-108-160	PINK	244	N/A	N/A	N/A	N/A	
HS1096-046-108-161	PINK	250	N/A	N/A	N/A	N/A	
HS1096-046-108-162	PINK	253	N/A	N/A	N/A	N/A	
HS1096-046-108-163	PINK	265	N/A	N/A	N/A	N/A	
HS1096-046-108-164	PINK	262	N/A	N/A	N/A	N/A	
HS1096-046-108-165	PINK	268	N/A	N/A	N/A	N/A	
HS1096-046-108-166	PINK	244	N/A	N/A	N/A	N/A	
HS1096-046-108-167	PINK	255	N/A	N/A	N/A	N/A	
HS1096-046-108-168	PINK	243	N/A	N/A	N/A	N/A	
HS1096-046-108-169	PINK	260	N/A	N/A	N/A	N/A	
HS1096-046-108-170	PINK	242	N/A	N/A	N/A	N/A	
HS1096-046-108-171	PINK	242	126	F	1.41	N/A	
HS1096-046-108-172	PINK	241	143	F	6.76	N/A	
HS1096-046-108-173	PINK	236	131	F	6.76	N/A	
HS1096-046-108-174	PINK	250	156	F	12.61	N/A	
HS1096-046-108-175	PINK	232	113	M	4.55	N/A	
HS1096-046-108-176	PINK	272	201	F	11.27	N/A	
HS1096-046-108-177	PINK	248	146	F	5.67	N/A	
HS1096-046-108-178	PINK	250	157	F	12.96	N/A	
HS1096-046-108-179	PINK	230	113	F	5.44	N/A	
HS1096-046-108-180	PINK	229	117	F	0.85	N/A	
HS1096-046-108-181	PINK	244	153	F	9.10	74	
HS1096-046-108-182	PINK	242	147	F	4.93	74	
HS1096-046-108-183	PINK	247	156	M	5.18	71	
HS1096-046-108-184	PINK	216	100	F	5.77	69	
HS1096-046-108-185	PINK	266	188	F	1.04	74	
HS1096-046-108-186	PINK	252	165	F	11.04	73	
HS1096-046-108-187	PINK	237	140	F	6.22	70	
HS1096-046-108-188	PINK	198	68	F	1.92	76	
HS1096-046-108-189	PINK	244	137	M	7.04	71	
HS1096-046-108-190	PINK	208	87	F	1.92	76	
HS1096-046-108-191	PINK	230	128	F	3.22	N/A	
HS1096-046-108-192	PINK	249	144	F	0.10	N/A	
HS1096-046-108-193	PINK	244	140	F	0.48	N/A	
HS1096-046-108-194	PINK	248	151	M	0.58	N/A	
HS1096-048-108-001	PINK	269	187	M	4.88	72	
HS1096-054-108-001	PINK	299	276	M	4.89	69	
HS1096-054-108-002	PINK	288	222	M	5.56	74	
HS1096-054-108-003	PINK	300	291	M	7.08	69	
HS1096-054-108-004	PINK	287	261	F	9.74	69	
HS1096-054-108-005	PINK	285	245	F	6.49	70	
HS1096-058-108-001	PINK	246	167	F	0.00	73	

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-058-108-002	PINK	238	127	F	1.80	73	
HS1096-058-108-003	PINK	241	144	F	2.30	75	
HS1096-058-108-004	PINK	257	188	M	0.83	72	
HS1096-058-108-005	PINK	243	137	M	1.61	75	
HS1096-058-108-006	PINK	200	67	M	0.06	71	
HS1096-058-108-007	PINK	217	96	F	0.89	76	
HS1096-058-108-008	PINK	278	216	M	0.87	71	
HS1096-058-108-009	PINK	228	114	M	1.76	77	
HS1096-058-108-010	PINK	246	N/A	N/A	N/A	N/A	
HS1096-058-108-011	PINK	241	146	F	0.93	N/A	
HS1096-058-108-012	PINK	215	104	F	0.06	N/A	
HS1096-058-108-013	PINK	191	62	M	0.72	N/A	
HS1096-058-108-014	PINK	249	151	F	0.59	N/A	
HS1096-058-108-015	PINK	207	72	M	0.03	N/A	
HS1096-058-108-016	PINK	210	91	F	0.50	N/A	
HS1096-058-108-017	PINK	235	129	M	0.68	N/A	
HS1096-058-108-018	PINK	203	73	M	0.98	N/A	
HS1096-058-108-019	PINK	216	92	M	0.79	N/A	
HS1096-059-108-001	PINK	320	330	M	0.87	N/A	
HS1096-059-108-002	PINK	274	211	F	0.62	N/A	
HS1096-059-108-003	PINK	251	155	F	0.47	N/A	
HS1096-059-108-004	PINK	236	121	M	0.12	N/A	
HS1096-059-108-005	PINK	255	179	F	0.77	N/A	
HS1096-059-108-006	PINK	240	160	F	0.95	71	
HS1096-059-108-007	PINK	256	180	F	0.45	70	
HS1096-059-108-008	PINK	254	169	M	0.14	73	
HS1096-059-108-009	PINK	257	171	F	0.30	71	
HS1096-059-108-010	PINK	246	157	F	0.87	73	
HS1096-059-108-011	PINK	253	169	F	0.33	N/A	
HS1096-059-108-012	PINK	209	87	F	0.46	N/A	
HS1096-059-108-013	PINK	227	127	F	3.05	N/A	
HS1096-059-108-014	PINK	255	177	F	2.47	N/A	
HS1096-059-108-015	PINK	244	146	M	0.27	N/A	
HS1096-059-108-016	PINK	244	148	F	0.47	N/A	
HS1096-059-108-017	PINK	230	104	F	0.26	N/A	
HS1096-059-108-018	PINK	245	148	F	0.16	N/A	
HS1096-059-108-019	PINK	264	190	M	0.00	N/A	
HS1096-059-108-020	PINK	232	126	F	0.00	N/A	
HS1096-059-108-021	PINK	225	N/A	F	N/A	N/A	
HS1096-059-108-022	PINK	221	N/A	F	N/A	N/A	
HS1096-059-108-023	PINK	254	N/A	M	N/A	N/A	
HS1096-059-108-024	PINK	261	N/A	F	N/A	N/A	
HS1096-059-108-025	PINK	209	N/A	M	N/A	N/A	
HS1096-059-108-026	PINK	223	N/A	M	N/A	N/A	
HS1096-059-108-027	PINK	240	N/A	F	N/A	N/A	
HS1096-059-108-028	PINK	243	N/A	M	N/A	N/A	
HS1096-059-108-029	PINK	226	N/A	F	N/A	N/A	
HS1096-059-108-030	PINK	231	N/A	M	N/A	N/A	
HS1096-059-108-031	PINK	278	N/A	M	N/A	N/A	
HS1096-059-108-032	PINK	290	N/A	F	N/A	N/A	

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Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-059-108-033	PINK	270	N/A	M	N/A	N/A	
HS1096-059-108-034	PINK	241	N/A	F	N/A	N/A	
HS1096-059-108-035	PINK	245	N/A	M	N/A	N/A	
HS1096-059-108-036	PINK	259	N/A	M	N/A	N/A	
HS1096-059-108-037	PINK	261	N/A	M	N/A	N/A	
HS1096-059-108-038	PINK	241	N/A	F	N/A	N/A	
HS1096-059-108-039	PINK	276	N/A	F	N/A	N/A	
HS1096-059-108-040	PINK	231	N/A	F	N/A	N/A	
HS1096-059-108-041	PINK	229	N/A	F	N/A	N/A	
HS1096-059-108-042	PINK	218	N/A	M	N/A	N/A	
HS1096-059-108-043	PINK	248	N/A	F	N/A	N/A	
HS1096-059-108-044	PINK	220	N/A	M	N/A	N/A	
HS1096-059-108-045	PINK	229	N/A	F	N/A	N/A	
HS1096-059-108-046	PINK	244	N/A	F	N/A	N/A	
HS1096-059-108-047	PINK	230	N/A	M	N/A	N/A	
HS1096-059-108-048	PINK	210	N/A	M	N/A	N/A	
HS1096-059-108-049	PINK	233	N/A	F	N/A	N/A	
HS1096-059-108-050	PINK	246	N/A	M	N/A	N/A	
HS1096-059-108-051	PINK	262	N/A	F	N/A	N/A	
HS1096-059-108-052	PINK	231	N/A	M	N/A	N/A	
HS1096-059-108-053	PINK	240	N/A	M	N/A	N/A	
HS1096-059-108-054	PINK	265	N/A	M	N/A	N/A	
HS1096-059-108-055	PINK	254	N/A	F	N/A	N/A	
HS1096-059-108-056	PINK	292	N/A	M	N/A	N/A	
HS1096-059-108-057	PINK	220	N/A	F	N/A	N/A	
HS1096-059-108-058	PINK	211	N/A	M	N/A	N/A	
HS1096-059-108-059	PINK	257	N/A	M	N/A	N/A	
HS1096-059-108-060	PINK	220	N/A	F	N/A	N/A	
HS1096-059-108-061	PINK	245	N/A	M	N/A	N/A	
HS1096-059-108-062	PINK	226	N/A	F	N/A	N/A	
HS1096-059-108-063	PINK	239	N/A	F	N/A	N/A	
HS1096-059-108-064	PINK	256	N/A	F	N/A	N/A	
HS1096-059-108-065	PINK	225	N/A	M	N/A	N/A	
HS1096-059-108-066	PINK	222	N/A	F	N/A	N/A	
HS1096-059-108-067	PINK	227	N/A	F	N/A	N/A	
HS1096-059-108-068	PINK	203	N/A	F	N/A	N/A	
HS1096-059-108-069	PINK	242	N/A	F	N/A	N/A	
HS1096-059-108-070	PINK	226	N/A	M	N/A	N/A	
HS1096-059-108-071	PINK	207	N/A	F	N/A	N/A	
HS1096-059-108-072	PINK	197	N/A	M	N/A	N/A	
HS1096-059-108-073	PINK	221	N/A	M	N/A	N/A	
HS1096-059-108-074	PINK	213	N/A	M	N/A	N/A	
HS1096-059-108-075	PINK	203	N/A	M	N/A	N/A	
HS1096-060-108-001	PINK	265	N/A	N/A	N/A	N/A	
HS1096-060-108-002	PINK	243	162	F	0.00	75	
HS1096-060-108-003	PINK	266	186	M	2.46	74	
HS1096-060-108-004	PINK	274	209	M	1.70	70	
HS1096-060-108-005	PINK	220	92	M	0.88	78	
HS1096-060-108-006	PINK	215	96	M	1.46	77	
HS1096-060-108-007	PINK	216	95	M	2.78	76	

Table 2. Biological data collected for each salmon caught on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-060-108-008	PINK	209	90	F	1.53	78	
HS1096-060-108-009	PINK	207	83	F	3.38	76	
HS1096-060-108-010	PINK	202	91	F	1.81	N/A	
HS1096-060-108-011	PINK	218	N/A	N/A	N/A	N/A	
HS1096-060-108-012	PINK	220	104	F	1.30	N/A	
HS1096-060-108-013	PINK	245	139	M	1.64	N/A	
HS1096-060-108-014	PINK	201	73	F	1.29	N/A	
HS1096-060-108-015	PINK	217	104	F	0.89	N/A	
HS1096-060-108-016	PINK	195	73	M	1.24	N/A	
HS1096-060-108-017	PINK	226	112	M	0.04	N/A	
HS1096-060-108-018	PINK	220	101	M	0.77	N/A	
HS1096-060-108-019	PINK	207	83	F	3.37	N/A	
HS1096-060-108-020	PINK	191	62	F	1.18	N/A	
HS1096-060-108-021	PINK	191	67	M	0.68	N/A	
HS1096-061-108-001	PINK	214	92	F	1.27	77	
HS1096-063-108-001	PINK	230	121	F	3.97	76	
HS1096-064-108-001	PINK	267	182	M	0.09	N/A	
HS1096-065-108-001	PINK	205	78	M	1.17	77	
HS1096-065-108-002	PINK	236	129	M	0.09	74	
HS1096-065-108-003	PINK	203	76	M	0.09	77	
HS1096-065-108-004	PINK	242	148	M	0.09	73	
HS1096-065-108-005	PINK	223	101	M	1.33	76	
HS1096-065-108-006	PINK	250	148	F	0.88	75	
HS1096-065-108-007	PINK	223	112	M	0.71	76	
HS1096-065-108-008	PINK	211	90	M	0.69	78	
HS1096-065-108-009	PINK	223	98	M	0.97	75	
HS1096-065-108-010	PINK	207	N/A	N/A	N/A	N/A	
HS1096-065-108-012	PINK	232	112	M	0.87	N/A	
HS1096-065-108-013	PINK	206	84	F	0.30	N/A	
HS1096-065-108-014	PINK	213	90	M	0.69	N/A	
HS1096-065-108-015	PINK	235	112	F	1.27	N/A	
HS1096-065-108-016	PINK	213	89	M	0.39	N/A	
HS1096-065-108-017	PINK	199	71	F	1.11	N/A	
HS1096-065-108-018	PINK	214	98	M	1.14	N/A	
HS1096-065-108-019	PINK	251	155	M	1.58	N/A	
HS1096-065-108-020	PINK	245	155	F	1.19	N/A	
HS1096-065-108-021	PINK	217	99	N/A	1.00	N/A	
HS1096-065-108-022	PINK	222	N/A	F	N/A	N/A	
HS1096-065-108-023	PINK	213	91	M	0.89	78	
HS1096-065-108-024	PINK	248	153	M	1.97	76	
HS1096-065-108-025	PINK	235	127	F	1.21	77	
HS1096-065-108-026	PINK	221	101	F	1.02	76	
HS1096-073-108-001	PINK	222	101	F	0.60	N/A	
HS1096-074-108-001	PINK	224	102	F	0.40	78	
HS1096-075-108-001	PINK	277	205	M	7.63	76	
HS1096-075-108-002	PINK	250	156	M	7.71	73	
HS1096-075-108-003	PINK	226	115	M	6.03	77	
HS1096-075-108-004	PINK	252	161	M	8.33	74	
HS1096-075-108-005	PINK	296	276	F	4.15	71	
HS1096-075-108-006	PINK	255	170	M	6.46	74	

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Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-075-108-007	PINK	263	183	F	8.31	73	
HS1096-075-108-008	PINK	278	N/A	M	N/A	N/A	
HS1096-075-108-009	PINK	250	N/A	F	N/A	N/A	
HS1096-075-108-010	PINK	265	N/A	F	N/A	N/A	
HS1096-075-108-011	PINK	248	N/A	M	N/A	N/A	
HS1096-075-108-012	PINK	251	N/A	M	N/A	N/A	
HS1096-075-108-013	PINK	255	N/A	F	N/A	N/A	
HS1096-075-108-014	PINK	249	N/A	M	N/A	N/A	
HS1096-075-108-015	PINK	265	N/A	M	N/A	N/A	
HS1096-004-118-001	SOCKEYE	139	23	M	1.24	76	
HS1096-004-118-002	SOCKEYE	134	23	M	0.52	75	
HS1096-007-118-001	SOCKEYE	117	15	F	0.48	N/A	
HS1096-012-118-001	SOCKEYE	183	59	M	1.74	N/A	
HS1096-015-118-001	SOCKEYE	173	52	F	1.19	N/A	
HS1096-015-118-002	SOCKEYE	171	50	M	2.08	N/A	
HS1096-015-118-003	SOCKEYE	170	48	M	1.13	N/A	
HS1096-021-118-001	SOCKEYE	256	171	F	0.06	N/A	
HS1096-041-118-001	SOCKEYE	188	62	F	0.05	77	
HS1096-042-118-001	SOCKEYE	169	46	M	0.25	77	
HS1096-042-118-002	SOCKEYE	205	83	F	0.39	76	
HS1096-044-118-001	SOCKEYE	206	N/A	N/A	N/A	N/A	
HS1096-044-118-002	SOCKEYE	197	81	M	0.08	76	
HS1096-044-118-003	SOCKEYE	228	125	M	0.17	74	
HS1096-044-118-004	SOCKEYE	232	127	M	0.34	73	
HS1096-044-118-005	SOCKEYE	253	159	F	0.10	75	
HS1096-044-118-006	SOCKEYE	219	101	M	0.13	74	
HS1096-044-118-007	SOCKEYE	223	113	M	0.26	75	
HS1096-044-118-008	SOCKEYE	214	101	M	0.17	74	
HS1096-044-118-009	SOCKEYE	227	122	F	0.15	74	
HS1096-044-118-010	SOCKEYE	215	97	M	0.10	75	
HS1096-044-118-011	SOCKEYE	230	134	F	0.03	N/A	
HS1096-044-118-012	SOCKEYE	234	133	M	0.64	N/A	
HS1096-044-118-013	SOCKEYE	215	113	F	0.05	N/A	
HS1096-044-118-014	SOCKEYE	211	94	M	0.15	N/A	
HS1096-044-118-015	SOCKEYE	220	N/A	N/A	N/A	N/A	
HS1096-044-118-016	SOCKEYE	175	N/A	M	N/A	N/A	
HS1096-044-118-017	SOCKEYE	204	82	F	0.00	74	
HS1096-044-118-018	SOCKEYE	225	119	F	0.23	73	
HS1096-044-118-019	SOCKEYE	188	69	F	0.00	76	
HS1096-044-118-020	SOCKEYE	231	N/A	N/A	N/A	N/A	
HS1096-044-118-021	SOCKEYE	249	N/A	F	N/A	N/A	
HS1096-044-118-022	SOCKEYE	230	124	F	0.15	74	
HS1096-044-118-023	SOCKEYE	200	83	F	0.12	76	
HS1096-044-118-024	SOCKEYE	200	85	F	0.00	75	
HS1096-044-118-025	SOCKEYE	222	N/A	M	N/A	N/A	
HS1096-045-118-001	SOCKEYE	233	119	F	0.49	N/A	
HS1096-046-118-001	SOCKEYE	254	175	F	2.94	N/A	
HS1096-046-118-002	SOCKEYE	245	175	M	0.62	N/A	
HS1096-046-118-003	SOCKEYE	246	157	M	0.46	N/A	

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Fish Number	Species	Fork Length (mm)	Whole Body Weight (g wet)	Sex	Stomach Content Weight (g wet)	% Water	CWT
HS1096-046-118-004	SOCKEYE	242	145	M	0.79	N/A	
HS1096-046-118-005	SOCKEYE	222	120	F	0.80	N/A	
HS1096-046-118-006	SOCKEYE	246	146	M	0.09	N/A	
HS1096-046-118-007	SOCKEYE	251	169	F	0.18	N/A	
HS1096-046-118-008	SOCKEYE	251	160	M	0.34	N/A	
HS1096-046-118-009	SOCKEYE	245	N/A	N/A	N/A	N/A	
HS1096-046-118-010	SOCKEYE	248	N/A	N/A	N/A	N/A	
HS1096-046-118-011	SOCKEYE	252	N/A	N/A	N/A	N/A	
HS1096-046-118-012	SOCKEYE	236	140	M	6.98	N/A	
HS1096-046-118-013	SOCKEYE	242	160	F	0.23	N/A	
HS1096-046-118-014	SOCKEYE	240	146	F	1.78	N/A	
HS1096-046-118-015	SOCKEYE	255	188	M	2.48	N/A	
HS1096-046-118-016	SOCKEYE	251	173	F	2.80	N/A	
HS1096-046-118-017	SOCKEYE	238	156	M	4.68	N/A	
HS1096-046-118-018	SOCKEYE	242	151	F	1.16	N/A	
HS1096-046-118-019	SOCKEYE	244	158	M	1.43	N/A	
HS1096-046-118-020	SOCKEYE	252	179	F	1.11	N/A	
HS1096-046-118-021	SOCKEYE	256	183	M	0.56	72	
HS1096-046-118-022	SOCKEYE	235	143	F	1.32	72	
HS1096-046-118-023	SOCKEYE	244	146	M	0.52	73	
HS1096-046-118-024	SOCKEYE	270	203	M	2.78	72	
HS1096-046-118-025	SOCKEYE	230	126	M	0.54	75	
HS1096-046-118-026	SOCKEYE	242	140	F	0.53	73	
HS1096-046-118-027	SOCKEYE	255	180	M	6.12	72	
HS1096-046-118-028	SOCKEYE	248	170	M	0.08	71	
HS1096-054-118-001	SOCKEYE	278	234	M	5.44	N/A	
HS1096-054-118-002	SOCKEYE	278	209	M	2.28	N/A	
HS1096-057-118-001	SOCKEYE	255	179	M	5.20	71	
HS1096-057-118-002	SOCKEYE	248	168	F	3.04	71	
HS1096-057-118-003	SOCKEYE	265	198	M	4.59	71	
HS1096-058-118-001	SOCKEYE	232	127	F	4.40	N/A	
HS1096-058-118-002	SOCKEYE	213	105	F	1.05	N/A	
HS1096-058-118-003	SOCKEYE	257	178	M	5.64	N/A	
HS1096-059-118-001	SOCKEYE	222	130	M	0.31	74	
HS1096-059-118-002	SOCKEYE	255	167	M	0.65	71	
HS1096-059-118-003	SOCKEYE	195	82	M	0.41	75	
HS1096-059-118-004	SOCKEYE	244	151	F	0.28	71	
HS1096-059-118-005	SOCKEYE	255	173	F	0.77	71	
HS1096-059-118-006	SOCKEYE	201	78	F	0.69	75	
HS1096-060-118-001	SOCKEYE	178	59	F	1.07	N/A	
HS1096-065-118-001	SOCKEYE	255	149	M	0.33	72	
HS1096-065-118-002	SOCKEYE	223	112	M	0.80	73	
HS1096-065-118-003	SOCKEYE	194	73	M	0.27	75	
HS1096-065-118-004	SOCKEYE	171	49	F	0.28	76	
HS1096-074-118-001	SOCKEYE	230	131	M	0.42	N/A	
HS1096-074-118-002	SOCKEYE	231	122	F	0.70	N/A	

Table 3. Stomach contents for juvenile salmon collected on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996. A list of abbreviations is provided on the last page of this Table (Page 14 of 14).

Fish Number	Body Weight (g dry)	Stomach Content Weight (g dry)	Visual Estimate of the % Composition of Diet Items for Each Juvenile Salmon																		Other Items / Comments
			EU	AM (1)	AM (2)	AM (3)	AM (4)	CO	OS	PT	GS	OI	CH	CM	CZ	FI	FL	SQ	DI	PO	
PINK SALMON																					
HS1096-001-108-001	48.916	0.02																			100% un-id remains
HS1096-001-108-002	48.125	0.39																			100% un-id remains
HS1096-001-108-003	58.733	0.02							40												60% un-id remains
HS1096-001-108-004	82.952	0.79	30	30					10												30% un-id remains
HS1096-001-108-005	79.764	0.04												30							70% un-id remains
HS1096-001-108-011	89.877	5.49	100																5		
HS1096-001-108-012	69.405	4.47	80										15								
HS1096-001-108-013	58.352	3.58	100														*5		2		* sebastes larvae; 43% un-id remains
HS1096-001-108-014	104.638	7.48	50										10								
HS1096-001-108-015	87.034	9.30	90												5						
HS1096-004-108-001	95.272	9.91	80					15													13% un-id remains
HS1096-004-108-002	89.191	3.38	75	2				10													8% un-id remains
HS1096-004-108-003	86.124	6.61	40	2				5					40		5				30		60% un-id remains
HS1096-004-108-004	84.299	0.58	10																		
HS1096-004-108-005	67.366	5.92	25	5				30					40								
HS1096-004-108-006	79.014	1.64	15	2				30					50						3		
HS1096-004-108-007	66.771	4.53	70	5				15							5						5% un-id remains
HS1096-004-108-008	77.764	0.14																			100% un-id remains
HS1096-005-108-001	92.745	9.93	100																5		95% un-id remains
HS1096-005-108-002	84.739	0.42																			
HS1096-005-108-003	80.176	11.00	100														1				
HS1096-005-108-004	89.149	12.18	99																		20% un-id remains
HS1096-005-108-005	74.146	5.53	80										5								
HS1096-005-108-006	81.480	6.45	95																		100% un-id remains
HS1096-005-108-007	53.866	0.79																			60% un-id sp; 40% un-id remains
HS1096-005-108-008	87.237	1.15																			
HS1096-005-108-009	98.545	11.85	100																		
HS1096-005-108-010	84.031	9.93	100																		
HS1096-006-108-001	95.206	1.38						70							25						5% un-id remains
HS1096-006-108-002	54.608	1.27						40							40						20% un-id remains
HS1096-006-108-003	63.447	0.41													70						30% un-id remains
HS1096-006-108-004	45.791	0.25																			100% un-id remains
HS1096-006-108-005	72.787	0.95						20							70						10% un-id remains
HS1096-006-108-006	92.808	2.99	5																		95% un-id remains
HS1096-006-108-007	73.725	0.83						20							70				2		8% un-id remains
HS1096-007-108-001	75.189	2.43						70							30						
HS1096-011-108-001	72.165	0.15																			100% slime

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			Visual Estimate of the % Composition of Diet Items for Each Juvenile Salmon																	
Fish Number	Body Weight (g dry)	Stomach Content Weight (g dry)	EU	AM (1)	AM (2)	AM (3)	AM (4)	CO	OS	PT	GS	OI	CH	CM	CZ	FI	FL	SQ	DI	PO	Other Items / Comments
HS1096-011-108-002	78.312	0.22	30																40		30% un-id remains
HS1096-011-108-003	60.294	0.20	10									5									85% un-id remains
HS1096-011-108-004	60.346	0.05		30																	70% un-id remains
HS1096-011-108-005	71.823	1.81	90																		10% un-id remains
HS1096-011-108-006	83.723	0.11																			100% un-id remains
HS1096-011-108-007	85.620	0.53																	20		80% un-id remains
HS1096-011-108-008	67.599	0.06																			100% un-id remains
HS1096-011-108-009	64.595	0.13																	60		40% un-id remains
HS1096-011-108-010	72.409	1.34	85																		15% un-id remains
HS1096-011-108-011	62.983	0.22	60																30		10% un-id remains
HS1096-011-108-012	68.253	0.51	60																		40% un-id remains
HS1096-011-108-013	75.549	0.21	40					5													55% un-id remains
HS1096-011-108-014	68.738	1.30	80																		20% un-id remains
HS1096-011-108-015	70.287	0.87	80																		20% un-id remains
HS1096-011-108-016	64.942	0.27			30																70% un-id remains
HS1096-011-108-017	72.661	0.34	50																		50% un-id remains
HS1096-011-108-018	70.579	0.14																			100% slime
HS1096-011-108-019	75.735	0.33	40																		60% un-id remains
HS1096-011-108-046	64.108	0.13																			100% slime
HS1096-012-108-001	51.979	0.25	60																20		20% un-id remains
HS1096-012-108-002	77.478	1.96	75																		25% un-id remains
HS1096-012-108-003	67.618	1.69	80																5		15% un-id remains
HS1096-012-108-004	68.813	0.20	40																		60% un-id remains
HS1096-014-108-001	60.028	1.68	50	15				15													20% un-id remains
HS1096-014-108-002	74.834	4.91	45	10	5		10	10							10						10% un-id remains
HS1096-014-108-003	61.266	0.63	10	25				30							20						15% un-id remains
HS1096-014-108-004	65.123	0.70	10	15			10	25							20						20% un-id remains
HS1096-014-108-005	56.976	1.24	15	20				20							20						25% un-id remains
HS1096-014-108-006	65.606	1.20	25	10																	65% un-id remains
HS1096-014-108-007	62.543	1.62	40	20	2			18							20						
HS1096-014-108-008	50.947	2.41	45	15	15		5	10						10							
HS1096-014-108-009	56.450	1.34	60	15			5	10							10						
HS1096-014-108-010	62.413	3.54	75		10	5	5							5							
HS1096-014-108-011	56.867	3.00	50	25				5							15				5		
HS1096-014-108-012	58.294	3.33	75	5			5	5							5		5				
HS1096-014-108-013	65.143	3.00	45	30				5							20						
HS1096-014-108-014	65.665	0.89	10	60				10							20						
HS1096-014-108-015	42.203	1.25	70	5				10							2		5				8% un-id remains
HS1096-014-108-016	55.383	3.20	50	20				10							10						10% un-id remains

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Fish Number	Body Weight (g dry)	Stomach Content Weight (g dry)	Visual Estimate of the % Composition of Diet Items for Each Juvenile Salmon																		Other Items / Comments
			EU	AM (1)	AM (2)	AM (3)	AM (4)	CO	OS	PT	GS	OI	CH	CM	CZ	FI	FL	SQ	DI	PO	
HS1096-014-108-017	65.074	5.23	75	5				5									*10				* sebastes larvae; 5% un-id remains
HS1096-014-108-018	66.738	3.18	50	10				10							15						15% un-id remains
HS1096-014-108-019	42.661	1.38		30				45							15						10% un-id remains
HS1096-015-108-001	63.869	1.02		20				10											20		50% un-id remains
HS1096-015-108-002	78.660	1.03		90			5	5													
HS1096-015-108-003	49.768	0.73		20				20													60% un-id remains
HS1096-015-108-004	45.647	0.84	20					10	10										5		55% un-id remains
HS1096-015-108-005	49.113	0.85	10	10																	80% un-id remains
HS1096-015-108-006	59.025	1.02						90													10% un-id remains
HS1096-015-108-007	48.153	1.17	30	10					20												40% un-id remains
HS1096-015-108-008	59.994	0.36		60				10													30% un-id remains
HS1096-015-108-009	76.538	1.49	70																10		20% un-id remains
HS1096-015-108-010	54.003	1.99	5	90				5													
HS1096-015-108-011	44.515	0.93	10					5													85% un-id remains
HS1096-015-108-012	65.606	0.43		85															15		
HS1096-015-108-013	60.682	1.08																	5		95% un-id remains
HS1096-015-108-014	59.471	0.89						20											10		70% un-id remains
HS1096-015-108-015	36.081	0.75	10																10		80% un-id remains
HS1096-015-108-016	47.846	1.77	10																5		85% un-id remains
HS1096-015-108-017	63.161	1.39	10	10				20													60% un-id remains
HS1096-015-108-018	56.168	0.36						90													10% un-id remains
HS1096-015-108-019	54.002	1.72	30																		70% un-id remains
HS1096-015-108-020	57.131	0.84	10	80			5	5													
HS1096-021-108-001	47.892	1.49																			
HS1096-022-108-001	39.139	0.43			5	10					70										15% un-id remains
HS1096-034-108-001	54.630	0.75	5		20	50					15				5						5% un-id remains
HS1096-034-108-002	96.064	6.18			15	65					10										10% un-id remains
HS1096-034-108-003	50.210	2.51				90					3						2				5% un-id remains
HS1096-034-108-004	66.087	3.23			5	85					5						5				
HS1096-034-108-005	65.691	3.48	9		2	70					15	2			2						
HS1096-034-108-006	68.600	4.18	2			80					10						5				3% un-id remains
HS1096-034-108-007	36.390	1.33				90					5										5% un-id remains
HS1096-034-108-008	69.700	4.72		5		80					5						3				7% un-id remains, 3% plastic
HS1096-034-108-009	70.483	5.10		5		85					10										
HS1096-036-108-007	44.045	0.76				40															60% un-id remains
HS1096-036-108-008	69.954	2.77				95					5										
HS1096-036-108-009	62.427	3.43				95					5										
HS1096-036-108-010	36.894	1.38				100															
HS1096-036-108-011	55.479	1.68				90					3		7								

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			Visual Estimate of the % Composition of Diet Items for Each Juvenile Salmon																		
Fish Number	Body Weight (g dry)	Stomach Content Weight (g dry)	EU	AM (1)	AM (2)	AM (3)	AM (4)	CO	OS	PT	GS	OI	CH	CM	CZ	FI	FL	SQ	DI	PO	Other Items / Comments
HS1096-036-108-012	61.994	4.72	3			94					3										
HS1096-036-108-013	41.712	0.21				50		20													30% un-id remains
HS1096-036-108-014	57.544	3.66			2	93					5										
HS1096-036-108-015	78.340	2.11			25	70					5										
HS1096-036-108-016	72.329	4.92				95						2									3% un-id remains
HS1096-041-108-001	58.841	0.04																			100% slime
HS1096-041-108-002	60.613	0.05																			100% slime
HS1096-041-108-003	39.800	0.00																			100% slime
HS1096-041-108-004	96.447	0.36																			100% un-id remains
HS1096-041-108-005	64.661	0.13																			100% slime
HS1096-041-108-006	44.809	0.03																			100% slime
HS1096-042-108-001	72.877	0.41				85					3										12% un-id remains
HS1096-042-108-002	110.296	0.68				80					10										10% un-id remains
HS1096-042-108-003	104.554	0.38		5		10															85% un-id remains
HS1096-042-108-004	89.426	0.77	5		5	60					10										20% un-id remains
HS1096-042-108-005	84.302	0.18																			100% un-id remains
HS1096-042-108-006	55.513	0.59				30					5										65% un-id remains
HS1096-042-108-007	74.946	0.26		5		50															45% un-id remains
HS1096-044-108-001	106.100	0.08				30															70% un-id remains
HS1096-044-108-002	159.691	0.03				30															70% un-id remains
HS1096-044-108-003	96.589	0.12				5															95% un-id remains
HS1096-044-108-004	113.658	0.05																			100% un-id remains
HS1096-044-108-005	116.681	0.26	15																		85% un-id remains
HS1096-044-108-006	79.085	0.05																			100% un-id remains
HS1096-044-108-007	148.649	0.01																			100% un-id remains
HS1096-044-108-008	146.201	0.05																			100% un-id remains
HS1096-044-108-009	65.727	0.06																			100% un-id remains
HS1096-044-108-011	123.273	0.18																			100% slime
HS1096-044-108-012	115.058	0.30				20															80% un-id remains
HS1096-044-108-013	106.266	0.12			30																70% un-id remains
HS1096-044-108-014	115.448	0.03																			100% un-id remains
HS1096-044-108-015	133.651	0.09												20							80% un-id remains
HS1096-044-108-016	127.680	0.13																			100% un-id remains
HS1096-044-108-017	86.654	0.28	10								5										85% un-id remains
HS1096-044-108-018	139.165	0.07			60																40% un-id remains
HS1096-044-108-019	108.761	0.09																			100% un-id remains
HS1096-044-108-021	137.301	0.00																			
HS1096-044-108-022	110.997	0.07	100																		
HS1096-044-108-023	128.784	0.00																			

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Fish Number	Body Weight (g dry)	Stomach Content Weight (g dry)	Visual Estimate of the % Composition of Diet Items for Each Juvenile Salmon																		Other Items / Comments
			EU	AM (1)	AM (2)	AM (3)	AM (4)	CO	OS	PT	GS	OI	CH	CM	CZ	FI	FL	SQ	DI	PO	
HS1096-044-108-024	98.536	0.00																			
HS1096-044-108-025	121.825	0.00																			75% un-id remains
HS1096-045-108-001	79.067	0.01				25											*95				* smelt larvae
HS1096-046-108-171	126.328	1.41						5									*100				* smelt larvae
HS1096-046-108-172	143.335	6.76															*100				* smelt larvae
HS1096-046-108-173	131.492	6.76															*99				* smelt larvae
HS1096-046-108-174	155.890	12.61						1									*97				* smelt larvae
HS1096-046-108-175	112.597	4.55						3									*99				* smelt larvae
HS1096-046-108-176	200.672	11.27						1									97				
HS1096-046-108-177	146.136	5.67				3											97				
HS1096-046-108-178	157.118	12.96				3											97				
HS1096-046-108-179	113.366	5.44				3															10% un-id remains
HS1096-046-108-180	117.245	0.85				90											*100				* smelt larvae
HS1096-046-108-181	153.132	9.10															*98				* smelt larvae
HS1096-046-108-182	147.030	4.93			1	1											*98				* smelt larvae; 1% un-id remains
HS1096-046-108-183	155.715	5.18				1											*98				* smelt larvae; 1% un-id remains
HS1096-046-108-184	99.827	5.77				1											70				20% un-id remains
HS1096-046-108-185	188.298	1.04				10											98				
HS1096-046-108-186	164.639	11.04				2											*96				* smelt larvae; 2% un-id remains
HS1096-046-108-187	139.515	6.22	2														100				
HS1096-046-108-188	67.709	1.92															*95				* smelt larvae
HS1096-046-108-189	137.306	7.04				5											100				
HS1096-046-108-190	86.960	1.92															*70				* smelt larvae
HS1096-046-108-191	127.991	3.22	10		3	15		2													10% un-id remains
HS1096-046-108-192	144.062	0.10				90															5% un-id remains
HS1096-046-108-193	139.657	0.48				90					5										70% slime
HS1096-046-108-194	151.279	0.58		5		20								5							
HS1096-048-108-001	187.383	4.88	50	5				45													
HS1096-054-108-001	276.289	4.89				75					25										
HS1096-054-108-002	222.458	5.56			5	70					20										5% un-id remains
HS1096-054-108-003	290.657	7.08				50	10				25										15% un-id remains
HS1096-054-108-004	260.630	9.74				80					15										5% un-id remains
HS1096-054-108-005	245.235	6.49				94					4						2				
HS1096-058-108-001	166.599	0.00																			
HS1096-058-108-002	126.940	1.80		5																	95% un-id remains
HS1096-058-108-003	143.624	2.30	40	5		10					20										25% un-id remains
HS1096-058-108-004	187.722	0.83									10										90% un-id remains
HS1096-058-108-005	137.491	1.61	20																		80% un-id remains
HS1096-058-108-006	67.192	0.05				30															70% un-id remains

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			Visual Estimate of the % Composition of Diet Items for Each Juvenile Salmon																		
Fish Number	Body Weight (g dry)	Stomach Content Weight (g dry)	EU	AM (1)	AM (2)	AM (3)	AM (4)	CO	OS	PT	GS	OI	CH	CM	CZ	FI	FL	SQ	DI	PO	Other Items / Comments
HS1096-058-108-007	96.421	0.89									5						30				65% un-id remains
HS1096-058-108-008	215.532	0.87									10										90% un-id remains
HS1096-058-108-009	114.327	1.76	70	5																	25% un-id remains
HS1096-058-108-011	145.617	0.93		20				10						15							55% un-id remains
HS1096-058-108-012	103.795	0.06		10																	90% un-id remains
HS1096-058-108-013	62.497	0.72	40	10							10										40% un-id remains
HS1096-058-108-014	150.854	0.59																			100% un-id remains
HS1096-058-108-015	72.482	0.03																			100% un-id remains
HS1096-058-108-016	91.057	0.50		20							15										65% un-id remains
HS1096-058-108-017	129.208	0.68		15									10								75% un-id remains
HS1096-058-108-018	73.428	0.98		30																	70% un-id remains
HS1096-058-108-019	91.592	0.79						10			15		20	10							45% un-id remains
HS1096-059-108-001	329.647	0.87			10		5							80							5% un-id remains
HS1096-059-108-002	211.310	0.62	15		10	5								70							
HS1096-059-108-003	155.431	0.47	30	20																	50% un-id remains
HS1096-059-108-004	120.829	0.12					33														67% un-id remains
HS1096-059-108-005	178.638	0.77	10											75							15% un-id remains
HS1096-059-108-006	159.876	0.95		5			10							70							15% un-id remains
HS1096-059-108-007	179.905	0.45			10									60							30% un-id remains
HS1096-059-108-008	168.774	0.14				20															80% un-id remains
HS1096-059-108-009	171.259	0.30												20							80% un-id remains
HS1096-059-108-010	157.185	0.87		20		5								40							35% un-id remains
HS1096-059-108-011	168.617	0.33												50							50% un-id remains
HS1096-059-108-012	87.421	0.46	30	3									30								37% un-id remains
HS1096-059-108-013	127.205	3.05	10	2				2					75								11% un-id remains
HS1096-059-108-014	176.713	2.47	5										80	5							10% un-id remains
HS1096-059-108-015	145.754	0.27		40																	60% un-id remains
HS1096-059-108-016	147.725	0.47	30	5										15							50% un-id remains
HS1096-059-108-017	103.953	0.26	70	5	5				5												15% un-id remains
HS1096-059-108-018	148.034	0.16						10						90							
HS1096-059-108-019	190.220	0.00																			
HS1096-059-108-020	126.459	0.00																			
HS1096-060-108-002	162.483	0.00																			
HS1096-060-108-003	185.707	2.46		10									30	5							55% un-id remains
HS1096-060-108-004	209.158	1.70												60							40% un-id remains
HS1096-060-108-005	91.916	0.88	20										35								45% un-id remains
HS1096-060-108-006	95.805	1.46	20	10		10							40								20% un-id remains
HS1096-060-108-007	95.162	2.78	20								5		40				30				5% un-id remains
HS1096-060-108-008	90.153	1.53	30										60								10% un-id remains

Table 3. Stomach contents for juvenile salmon collected on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996. A list of abbreviations is provided on the last page of this Table (Page 14 of 14).

Fish Number	Body Weight (g dry)	Stomach Content Weight (g dry)	Visual Estimate of the % Composition of Diet Items for Each Juvenile Salmon																	Other Items / Comments
			EU	AM (1)	AM (2)	AM (3)	AM (4)	CO	OS	PT	GS	OI	CH	CM	CZ	FI	FL	SQ	DI	PO	
HS1096-060-108-009	83.288	3.38	35	5				20					35							5% un-id remains
HS1096-060-108-010	84.727	1.81	15	10		15	15				20									25% un-id remains
HS1096-060-108-012	103.530	1.30	15	5			15				15		40							10% un-id remains
HS1096-060-108-013	138.743	1.64	10			3	2				5		70							10% un-id remains
HS1096-060-108-014	73.458	1.29	40	3				5					10							42% un-id remains
HS1096-060-108-015	104.466	0.89				10	10				10		15							55% un-id remains; plus some pummice
HS1096-060-108-016	73.180	1.24	15				5				5		40							35% un-id remains; plus some pummice
HS1096-060-108-017	112.188	0.04																		100% un-id remains
HS1096-060-108-018	100.786	0.77				10	20				15		20	5			5			25% un-id remains
HS1096-060-108-019	82.824	3.37	60				5						20							15% un-id remains
HS1096-060-108-020	61.528	1.18	30		20		20				10									20% un-id remains
HS1096-060-108-021	66.587	0.68					10				3		60							27% un-id remains
HS1096-061-108-001	92.303	1.27			5	35	30				20									10% un-id remains
HS1096-063-108-001	120.880	3.97	60			35														5% un-id remains
HS1096-064-108-001	181.701	0.09																		100% un-id remains
HS1096-065-108-001	77.755	1.17	10		80															10% un-id remains
HS1096-065-108-002	128.862	0.09					60													40% un-id remains
HS1096-065-108-003	76.370	0.09	5		85	3					2									5% un-id remains
HS1096-065-108-004	148.333	0.09	10		70									20						
HS1096-065-108-005	100.888	1.33			80		10							5						5% un-id remains
HS1096-065-108-006	148.188	0.88			70		5							10			5			10% un-id remains
HS1096-065-108-007	112.306	0.71			90															10% un-id remains
HS1096-065-108-008	89.765	0.69			70	5	15													10% un-id remains
HS1096-065-108-009	98.063	0.97	20		50	5	10										5			10% un-id remains
HS1096-065-108-012	112.295	0.87	5	70										15						25% un-id remains
HS1096-065-108-013	84.118	0.30			70			5												
HS1096-065-108-014	89.783	0.69			100															
HS1096-065-108-015	111.899	1.27			85								5	5						5% un-id remains
HS1096-065-108-C16	88.524	0.39																		100% un-id remains
HS1096-065-108-017	70.890	1.11			100															
HS1096-065-108-018	98.087	1.14			100															
HS1096-065-108-019	155.236	1.58			100															
HS1096-065-108-020	154.904	1.19			100															
HS1096-065-108-022	98.873	1.00	5		85	5														5% un-id remains
HS1096-065-108-023	90.505	0.89			90															10% un-id remains
HS1096-065-108-024	153.020	1.97	5		80		3	5												7% un-id remains
HS1096-065-108-025	127.405	1.21	30		40											20				10% un-id remains
HS1096-065-108-026	101.169	1.02			85						5									10% un-id remains
HS1096-073-108-001	100.701	0.60	20	5							50						10			15% un-id remains

Table 3. Stomach contents for juvenile salmon collected on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996. A list of abbreviations is provided on the last page of this Table (Page 14 of 14).

			Visual Estimate of the % Composition of Diet Items for Each Juvenile Salmon																	
Fish Number	Body Weight (g dry)	Stomach Content Weight (g dry)	EU	AM (1)	AM (2)	AM (3)	AM (4)	CO	OS	PT	GS	OI	CH	CM	CZ	FI	FL	SQ	DI	PO	Other Items / Comments
HS1096-074-108-001	101.787	0.40		10		20		10			35										25% un-id remains
HS1096-075-108-001	205.221	7.63			20	10					20		50								
HS1096-075-108-002	156.212	7.71			10	5					10		75								
HS1096-075-108-003	115.348	6.03				5					5		80								10% un-id remains
HS1096-075-108-004	161.088	8.33	3		5	5					15		70				2				
HS1096-075-108-005	275.529	4.15		10	5	10					20		55								
HS1096-075-108-006	169.578	6.46		10	5	10					20		55								
HS1096-075-108-007	182.608	8.31			5	10					35		30								20% un-id remains
HS1096-075-108-015	186.622	6.97			10		15				5		60								10% octopus larvae, 60% un-id remains
CHUM SALMON																					
HS1096-005-112-001	94.929	7.77	95																		5% un-id remains
HS1096-005-112-002	110.194	10.29	85																		15% un-id remains
HS1096-005-112-003	135.179	14.93	95																		5% un-id remains
HS1096-005-112-004	107.343	6.61	75																		25% un-id remains
HS1096-005-112-005	139.987	8.31	85																		15% un-id remains
HS1096-005-112-006	124.599	3.44																			95% purple mush, 5% green slime
HS1096-005-112-007	120.758	0.96																			100% green-yellow mush
HS1096-005-112-008	100.187	12.00	95																		5% un-id remains
HS1096-005-112-009	101.003	4.67	10										30								60% purple mush
HS1096-006-112-002	134.367	3.17																			100% light purple mush
HS1096-006-112-003	120.206	4.61																			90% purple mush, 10% green slime
HS1096-006-112-004	124.484	3.96																			90% purple mush, 10% green slime
HS1096-006-112-005	125.823	3.42																			90% purple mush, 10% green slime
HS1096-006-112-006	94.614	1.41																			60% pink mush, 40% green slime
HS1096-006-112-007	104.144	2.75																			90% purple mush, 10% green slime
HS1096-006-112-008	110.984	4.88																			95% pink mush, 5% green slime
HS1096-006-112-009	97.166	2.87																			90% purple mush, 10% green slime
HS1096-006-112-010	124.801	4.19																			100% light purple mush
HS1096-006-112-012	93.569	2.56																			95% pink mush, 5% green slime
HS1096-006-112-013	101.520	3.64																			95% pink mush, 5% green slime
HS1096-006-112-014	130.543	2.67																			90% pink mush, 10% green slime
HS1096-006-112-015	110.307	4.78																			90% pink mush, 10% green slime
HS1096-006-112-016	123.925	4.02																			95% pink mush, 10% green slime
HS1096-006-112-017	101.827	3.48																			90% pink mush, 10% green slime
HS1096-006-112-018	75.723	2.43																			85% pink mush, 15% green slime
HS1096-006-112-019	90.002	2.82																			100% light purple mush
HS1096-006-112-020	101.955	3.32																			100 % light purple mush

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Fish Number	Body Weight (g dry)	Stomach Content Weight (g dry)	Visual Estimate of the % Composition of Diet Items for Each Juvenile Salmon																		Other Items / Comments
			EU	AM (1)	AM (2)	AM (3)	AM (4)	CO	OS	PT	GS	OI	CH	CM	CZ	FI	FL	SQ	DI	PO	
HS1096-006-112-021	98.869	2.29																			100 % light purple mush
HS1096-006-112-022	95.761	2.08																			90% purple mush, 10% green slime
HS1096-007-112-001	88.122	0.43																			100% un-id remains
HS1096-014-112-001	79.596	2.40		5									90								5% un-id remains
HS1096-014-112-002	66.405	3.23	55	5									37						3		
HS1096-014-112-003	73.577	1.55	30	10									60								
HS1096-015-112-001	70.869	2.32	25																		75 % creme mush
HS1096-015-112-002	109.740	1.23	20																		80% creme mush
HS1096-015-112-003	87.745	0.88																			100% creme mush
HS1096-015-112-004	76.119	0.99					5														35% green mush, 60% purple mush
HS1096-015-112-005	83.639	2.94		5																	70% green mush, 25% liquified remains
HS1096-015-112-006	42.350	0.20																			100% pink mush
HS1096-021-112-001	55.232	0.49	70																		30% un-id remains
HS1096-021-112-002	38.170	0.17	40																		60% un-id remains
HS1096-034-112-001	163.517	10.40				15							*85								* well digested pink-white mush
HS1096-034-112-002	74.429	3.33			5	90															5% un-id remains
HS1096-034-112-003	63.717	2.60			10	30					4										56% un-id remains
HS1096-036-112-001	95.217	5.49				60															40% un-id remains
HS1096-036-112-002	65.163	1.55	5			60															35% un-id remains
HS1096-036-112-003	41.987	2.36				80															20% un-id remains
HS1096-036-112-004	81.322	3.97				95															5% un-id remains
HS1096-038-112-002	86.157	3.26		5		90															5% un-id remains
HS1096-038-112-003	93.206	7.32	2	3		95															
HS1096-038-112-004	96.781	4.72		3		90					3										4% un-id remains
HS1096-038-112-005	53.361	3.05		3		90															7% un-id remains
HS1096-038-112-006	33.781	0.29																			100% un-id remains
HS1096-041-112-001	161.669	0.16																			90% liquified remains, 10% green slime
HS1096-041-112-002	88.485	0.32																			70% liquified remains, 30% green slime
HS1096-041-112-003	173.305	0.44											60								40% pink mush, liquified remains
HS1096-041-112-004	90.140	0.35											80								20% liquified remains
HS1096-041-112-005	199.849	0.43											70								30% pink mush, liquified remains
HS1096-041-112-006	156.802	0.78																			60% liquified remains, 40% green slime
HS1096-041-112-007	192.138	0.51																			60% liquified remains, 40% green slime
HS1096-041-112-008	145.912	0.31																			80% liquified remains, 20% green slime
HS1096-041-112-009	168.848	0.53											30								70% liquified remains
HS1096-041-112-011	215.455	0.61											40								60% liquified remains
HS1096-041-112-012	179.262	0.68											60								40% liquified remains
HS1096-041-112-013	155.290	0.09											40								60% liquified remains
HS1096-041-112-014	193.553	0.39											30								10% green slime, 60% liquified remains

Table 3. Stomach contents for juvenile salmon collected on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996. A list of abbreviations is provided on the last page of this Table (Page 14 of 14).

Fish Number	Body Weight (g dry)	Stomach Content Weight (g dry)	Visual Estimate of the % Composition of Diet Items for Each Juvenile Salmon																			Other Items / Comments
			EU	AM (1)	AM (2)	AM (3)	AM (4)	CO	OS	PT	GS	OI	CH	CM	CZ	FI	FL	SQ	DI	PO	
HS1096-041-112-015	193.643	0.52																				100% liquified remains
HS1096-041-112-016	134.042	2.04																				50% liquified remains, 50% green slime
HS1096-041-112-017	82.259	0.27											70									30% liquified remains
HS1096-041-112-018	141.733	0.50																				65% liquified remains, 35% green slime
HS1096-041-112-019	164.865	0.82																				60% liquified remains, 40% green slime
HS1096-041-112-021	187.763	0.45																				100% un-id remains
HS1096-041-112-022	83.849	0.12																				100% un-id remains
HS1096-041-112-023	191.180	0.09																				100% un-id remains
HS1096-041-112-024	155.779	0.05																				100% un-id remains
HS1096-041-112-025	148.470	0.21																				100% un-id remains
HS1096-041-112-026	167.981	0.68																				90% pink mush, 10% green-yellow mush
HS1096-041-112-027	180.303	0.35																				90% pink mush,10% green-yellow mush
HS1096-041-112-028	196.747	0.14																				10% pink mush, 90% green slime
HS1096-041-112-029	203.987	0.21																				100% green slime
HS1096-042-112-001	79.805	0.84		2		10										*50						* flatfish larva; 38% un-id remains
HS1096-042-112-002	53.335	0.37				10							*40									* digested; 50% un-id remains
HS1096-042-112-003	94.692	0.41														10						80% pink mush, 10% green slime
HS1096-042-112-004	209.745	0.26																				100% green slime
HS1096-042-112-005	82.109	0.95				5																95% green slime
HS1096-042-112-006	136.732	0.04											60									35%water, 5% green slime
HS1096-058-112-005	145.207	0.28											*100									* well-digested, white mush
HS1096-058-112-006	141.017	0.37											*100									* well-digested, white mush
HS1096-058-112-007	117.832	0.26											*100									* well-digested, white mush
HS1096-058-112-008	92.542	1.00											80									20% un-id remains
HS1096-059-112-001	206.350	1.57		2		5	5															88% un-id remains
HS1096-059-112-002	166.009	1.54		1			2				1											96% un-id remains
HS1096-059-112-003	153.878	1.73	5				5															90% un-id remains
HS1096-059-112-004	113.623	0.63	10	5		5	2															78% un-id remains
HS1096-059-112-005	115.805	0.75				10							*90									* well-digested, white mush
HS1096-059-112-006	164.415	3.49											*80			20						* well-digested, white mush
HS1096-059-112-007	108.898	0.65				5							*95									* well-digested, white mush
HS1096-059-112-008	163.478	2.60				5							*25	70								* well-digested, white mush
HS1096-059-112-009	118.463	0.91	80																			20% un-id remains
HS1096-060-112-001	157.491	3.99					5						50									10% liquified remains, 35% purple mush
HS1096-060-112-002	244.974	6.50											40									20% liquified remains, 40% purple mush
HS1096-060-112-003	146.895	2.53	5				2						75									18% un-id remains
HS1096-060-112-004	163.372	2.48					2						80									18% liquified remains
HS1096-060-112-005	195.568	4.55				5	3						90									2% un-id remains
HS1096-060-112-006	96.579	2.30											*80									* semi-digested; 20% pink mush

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			Visual Estimate of the % Composition of Diet Items for Each Juvenile Salmon																		
Fish Number	Body Weight (g dry)	Stomach Content Weight (g dry)	EU	AM (1)	AM (2)	AM (3)	AM (4)	CO	OS	PT	GS	OI	CH	CM	CZ	FI	FL	SQ	DI	PO	Other Items / Comments
HS1096-060-112-007	189.006	6.12											*90								*digested; 10% un-id remains
HS1096-060-112-008	159.987	3.63	10										90								
HS1096-060-112-009	147.216	3.70											*60								*well-digested; 40% un-id remains
HS1096-060-112-010	130.590	2.96											75								25% pink mush
HS1096-060-112-011	122.081	3.03	10										80								10% pink mush
HS1096-061-112-001	148.674	3.03				30	25				15		30								
HS1096-065-112-001	88.266	0.75	40			5	10														45% un-id remains
HS1096-065-112-002	130.605	2.44			70																30% un-id remains
HS1096-065-112-003	157.837	0.68					15														85% un-id remains
HS1096-065-112-004	94.839	1.42			80		10														10% purple mush
HS1096-065-112-005	110.889	1.57			30	5	5									10					50% un-id remains
SOCKEYE SALMON																					
HS1096-004-118-001	22.781	1.24	15					85													100% un-id remains
HS1096-004-118-002	22.806	0.52																			100% un-id remains
HS1096-007-118-001	15.183	0.48																			15% un-id remains
HS1096-012-118-001	59.422	1.74	80		5										10						5% un-id remains
HS1096-015-118-001	52.042	1.19	10	75											5						65% un-id remains
HS1096-015-118-002	49.671	2.08	30												5						70% un-id remains
HS1096-015-118-003	47.742	1.13	25																		5% un-id remains
HS1096-021-118-001	170.533	0.06	85			10															100% un-id remains
HS1096-041-118-001	62.041	0.05																			100% un-id remains
HS1096-042-118-001	46.245	0.25																			60% un-id remains
HS1096-042-118-002	83.331	0.39				30	10														100% un-id remains
HS1096-044-118-002	81.227	0.08																			50% un-id remains
HS1096-044-118-003	124.861	0.17				50															100% un-id remains
HS1096-044-118-004	127.464	0.34																			100% un-id remains
HS1096-044-118-005	158.511	0.10																			90% un-id remains
HS1096-044-118-006	100.540	0.13				10															100% un-id remains
HS1096-044-118-007	113.330	0.26																			100% un-id remains
HS1096-044-118-008	101.469	0.17																			100% un-id remains
HS1096-044-118-009	121.630	0.15																			100% un-id remains
HS1096-044-118-010	96.817	0.10																			100% un-id remains
HS1096-044-118-011	134.407	0.03																			65% un-id remains
HS1096-044-118-012	133.115	0.64				20					15										100% un-id remains
HS1096-044-118-013	113.466	0.05																			100% un-id remains
HS1096-044-118-014	94.134	0.15																			
HS1096-044-118-017	81.933	0.00																			

Table 3. Stomach contents for juvenile salmon collected on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996. A list of abbreviations is provided on the last page of this Table (Page 14 of 14).

Fish Number	Body Weight (g dry)	Stomach Content Weight (g dry)	Visual Estimate of the % Composition of Diet Items for Each Juvenile Salmon																	Other Items / Comments
			EU	AM (1)	AM (2)	AM (3)	AM (4)	CO	OS	PT	GS	OI	CH	CM	CZ	FI	FL	SQ	DI	PO	
HS1096-044-118-018	119.317	0.23																		100% un-id remains
HS1096-044-118-019	68.772	0.00																		
HS1096-044-118-022	124.492	0.15																		100% un-id remains
HS1096-044-118-023	82.930	0.12																		100% un-id remains
HS1096-044-118-024	84.843	0.00																		
HS1096-045-118-001	119.324	0.49	25	10		20							25							20% un-id remains
HS1096-046-118-001	174.907	2.94				2										*98				* smelt larvae
HS1096-046-118-002	175.164	0.62				15										*60				* smelt larvae; 25% un-id remains
HS1096-046-118-003	157.098	0.46				15										*60				* smelt larvae; 25% un-id remains
HS1096-046-118-004	145.145	0.79				5							30			*60				* smelt larvae; 5% un-id remains
HS1096-046-118-005	119.859	0.80	30			5							30							35% un-id remains
HS1096-046-118-006	146.160	0.09				20														80% un-id remains
HS1096-046-118-007	169.310	0.18				10														90% un-id remains
HS1096-046-118-008	160.286	0.34				5										85				10% un-id remains
HS1096-046-118-012	140.210	6.98				5										*95				* smelt larvae
HS1096-046-118-013	160.234	0.23				20														80% un-id remains
HS1096-046-118-014	146.041	1.78				20										70				10% un-id remains
HS1096-046-118-015	187.600	2.48				10										85				5% un-id remains
HS1096-046-118-016	173.281	2.80				5										95				
HS1096-046-118-017	155.876	4.68				5										95				
HS1096-046-118-018	151.435	1.16		5		5										80				10% un-id remains
HS1096-046-118-019	157.891	1.43				5										75				20% un-id remains
HS1096-046-118-020	178.810	1.11				5										70				25% un-id remains
HS1096-046-118-021	182.805	0.56				8								5		20				67% un-id remains
HS1096-046-118-022	142.766	1.32				5										75				20% un-id remains
HS1096-046-118-023	145.699	0.52				10										50				40% un-id remains
HS1096-046-118-024	202.829	2.78				5										*95				* smelt larvae
HS1096-046-118-025	125.975	0.54				5										80				15% un-id remains
HS1096-046-118-026	139.944	0.53				20										70				10% un-id remains
HS1096-046-118-027	180.206	6.12		2		8										*90				* smelt larvae
HS1096-046-118-028	170.342	0.08		10		40														50% un-id remains
HS1096-054-118-001	233.702	5.44		5		85					10									
HS1096-054-118-002	209.459	2.28		2		75		*10			10									* large copepods; 3% un-id remains
HS1096-057-118-001	179.442	5.20	55			10		20								10				5% un-id remains
HS1096-057-118-002	168.062	3.04	40			40										5				15% un-id remains
HS1096-057-118-003	197.890	4.59	75			10										5				10% un-id remains
HS1096-058-118-001	127.411	4.40	60	5		15														20% un-id remains
HS1096-058-118-002	104.963	1.05	60	3		5														32% un-id remains
HS1096-058-118-003	177.800	5.64	20										45			*35				* smelt larvae

Table 3. Stomach contents for juvenile salmon collected on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996. A list of abbreviations is provided on the last page of this Table (Page 14 of 14).

Fish Number	Body Weight (g dry)	Stomach Content Weight (g dry)	Visual Estimate of the % Composition of Diet Items for Each Juvenile Salmon																			Other Items / Comments
			EU	AM (1)	AM (2)	AM (3)	AM (4)	CO	OS	PT	GS	OI	CH	CM	CZ	FI	FL	SQ	DI	PO	
HS1096-059-118-001	129.823	0.31	40																			60% un-id remains
HS1096-059-118-002	167.265	0.65	30				10							20								50% un-id remains
HS1096-059-118-003	82.240	0.41					30							20								40% un-id remains
HS1096-059-118-004	151.198	0.28	30																			70% un-id remains
HS1096-059-118-005	172.914	0.77		5										10								85% un-id remains
HS1096-059-118-006	78.299	0.69			10		15															75% un-id remains
HS1096-060-118-001	58.931	1.07	5				5						90									
HS1096-065-118-001	148.571	0.33					20															80% un-id remains
HS1096-065-118-002	111.869	0.80					40															60% un-id remains
HS1096-065-118-003	73.141	0.27	40				20															40% un-id remains
HS1096-065-118-004	49.330	0.28	15		30		30															25% un-id remains
HS1096-074-118-001	131.291	0.42				10					35		*55									* semi-digested
HS1096-074-118-002	122.001	0.70									20		70									10% un-id remains
COHO SALMON																						
HS1096-005-115-001	156.074	4.05	3																	90		7% un-id remains
HS1096-005-115-002	184.511	0.88			10						3											87% un-id remains
HS1096-005-115-003	204.470	0.74																				100% un-id remains
HS1096-005-115-004	115.898	5.76															*95					* sebastes larvae; 5% un-id remains
HS1096-005-115-005	101.947	2.65															80			15		5% un-id remains
HS1096-006-115-001	129.706	0.08																				100% un-id remains
HS1096-006-115-002	152.589	0.45															50					50% un-id remains
HS1096-006-115-003	229.094	2.71															40			40		20% un-id remains
HS1096-006-115-004	301.733	22.20	74		3											*15	*8					* sebastes larvae; * sandlance
HS1096-007-115-001	184.757	3.40															*93					*sebastes larvae; 7% un-id remains
HS1096-008-115-001	202.809	6.20	10														*30	10				10% octopus larvae; 40% un-id remains
HS1096-021-115-001	364.843	0.00																				
HS1096-021-115-002	126.895	0.96	60														40					
HS1096-021-115-003	231.439	0.25	30																			70% un-id remains
HS1096-021-115-004	240.733	0.00																				
HS1096-021-115-005	290.110	0.00																				
HS1096-021-115-006	276.717	0.00																				
HS1096-034-115-001	248.139	0.41				75								25								
HS1096-040-115-004	404.996	4.52	5		40	20	5				10			5								5% shrimp; 10% un-id remains
HS1096-040-115-005	428.184	5.24			5	5	5							10			70					5% un-id remains
HS1096-054-115-001	390.790	4.76				90					5			5								
HS1096-054-115-003	498.591	4.49		5		70					5		5									15% a grasshopper
HS1096-054-115-004	462.816	2.10		5	2	58	10				25											

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			Visual Estimate of the % Composition of Diet Items for Each Juvenile Salmon																	
Fish Number	Body Weight (g dry)	Stomach Content Weight (g dry)	EU	AM (1)	AM (2)	AM (3)	AM (4)	CO	OS	PT	GS	OI	CH	CM	CZ	FI	FL	SQ	DI	PO	Other Items / Comments
HS1096-054-115-005	476.064	4.88			10	85					5										
HS1096-058-115-001	602.859	0.00																			
HS1096-056-115-001	368.299	1.29				10															90% un-id remains
HS1096-073-115-001	251.946	0.00																			
HS1096-076-115-001	245.299	0.46			10	2			10		10			10							58% un-id remains
CHINOOK SALMON																					
HS1096-005-124-001	47.831	0.96														*20				65	* sebastes larvae; 15% un-id remains
HS1096-006-124-001	160.201	3.25															60	30			10% seaworm
HS1096-006-124-002	124.026	2.04												8	5	53					34% un-id remains
HS1096-006-124-003	273.658	16.83															*95			5	* mostly sandlance, one smelt
HS1096-064-124-001	172.083	0.00																			
HS1096-064-124-002	582.972	0.00																			
HS1096-066-124-001	139.752	0.00																			

List of Abbreviations:

EU	Euphausiids
AM (1)	Hyperiid Amphipods
AM (2)	Large Amphipods
AM (3)	Gammarid Amphipods
AM (4)	Euprimo Amphipods
CO	Copepods
OS	Ostracods
PT	Pteropods
GS	Gastropods
OI	Oikopleura
CH	Chaetognaths
CM	Crab Megalopae
CZ	Crab Zoae
FI	Fish
FL	Fish Larvae
SQ	Squid
DI	Diptera
PO	Polychetes

Table 4. Physical oceanographic data collected on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

Station ID	CTD Filename	Transect	Region	Bottom Depth (m)	Date	Time UTC	Latitude (°N)	Longitude (°W)	SST (°C)	SSS (ppt)	SSS Bottle (ppt)	NO_3 (µmol / L)	SiO_4 (µmol / L)	PO_4 (µmol / L)
HS109601	96400001	NORTH VANCOUVER ISLAND	VANCOUVER ISLAND	21	03-Oct-96	14:46	51.186	127.838	8.987	31.946	N/A	24.9	39.3	2.10
HS109602	96400002	NORTH VANCOUVER ISLAND	VANCOUVER ISLAND	68	03-Oct-96	16:33	51.099	127.961	9.048	32.216	N/A	24.7	38.8	2.06
HS109603	96400003	NORTH VANCOUVER ISLAND	VANCOUVER ISLAND	89	03-Oct-96	17:51	51.032	128.061	9.596	32.362	N/A	18.8	31.3	1.66
HS109604	96400004	NORTH VANCOUVER ISLAND	VANCOUVER ISLAND	92	03-Oct-96	19:32	50.958	128.206	9.956	31.703	N/A	19.0	31.7	1.68
HS109605	96400005	NORTH VANCOUVER ISLAND	VANCOUVER ISLAND	55	03-Oct-96	21:10	50.894	128.314	10.888	32.318	N/A	11.7	22.7	1.19
HS109606	96400006	NORTH VANCOUVER ISLAND	VANCOUVER ISLAND	33	03-Oct-96	23:48	50.826	128.476	11.735	32.111	N/A	7.4	18.2	0.93
HS109607	96400007	NORTH VANCOUVER ISLAND	VANCOUVER ISLAND	56	03-Oct-96	01:50	50.708	128.568	11.605	32.137	N/A	7.4	18.2	0.94
HS109608	96400008	NORTH VANCOUVER ISLAND	VANCOUVER ISLAND	207	04-Oct-96	15:42	50.666	128.648	12.379	31.973	N/A	5.2	13.9	0.75
HS109609	96400009	NORTH VANCOUVER ISLAND	VANCOUVER ISLAND	319	04-Oct-96	17:25	50.611	128.763	11.618	32.031	N/A	9.2	19.6	1.02
HS109610	96400010	NORTH VANCOUVER ISLAND	VANCOUVER ISLAND	995	04-Oct-96	19:22	50.544	128.893	11.832	32.021	N/A	9.1	19.6	1.01
HS109611	96400011	HECATE STRAIT	HECATE STRAIT	2,967	05-Oct-96	14:38	50.369	131.005	11.367	31.773	N/A	7.4	17.2	0.98
HS109612	96400012	HECATE STRAIT	HECATE STRAIT	2,518	05-Oct-96	16:43	50.441	130.846	10.941	31.817	N/A	8.9	19.8	1.12
HS109613	96400013	HECATE STRAIT	HECATE STRAIT	121	05-Oct-96	19:15	52.604	130.608	11.750	31.693	N/A	6.4	15.7	0.87
HS109614	96400014	HECATE STRAIT	HECATE STRAIT	196	05-Oct-96	21:41	52.760	130.379	11.369	30.997	N/A	9.4	21.0	0.99
HS109615	96400015	HECATE STRAIT	HECATE STRAIT	224	06-Oct-96	00:10	52.925	130.147	11.557	31.236	N/A	8.2	20.0	0.92
HS109616	96400016	LANGARA ISLAND	VANCOUVER ISLAND	327	07-Oct-96	14:44	54.293	133.051	12.636	31.961	32.044	1.8	5.8	0.56
HS109617	96400017	LANGARA ISLAND	VANCOUVER ISLAND	319	07-Oct-96	17:52	54.249	133.328	12.794	31.964	32.089	1.1	5.0	0.50
HS109618	96400018	LANGARA ISLAND	VANCOUVER ISLAND	317	07-Oct-96	20:23	54.216	133.607	12.170	32.202	32.285	1.6	4.6	0.55
HS109619	96400019	LANGARA ISLAND	VANCOUVER ISLAND	837	07-Oct-96	23:19	54.178	133.900	12.023	32.239	32.332	2.0	4.8	0.57
HS109620	96400020	LANGARA ISLAND	VANCOUVER ISLAND	175	08-Oct-96	17:08	56.052	134.701	11.267	31.861	31.861	7.3	17.6	0.90
HS109621	96400021	ICY POINT	SOUTH CENTRAL ALASKA	158	09-Oct-96	14:30	58.336	137.119	8.871	30.892	30.892	14.2	25.5	1.37
HS109622	96400022	ICY POINT	SOUTH CENTRAL ALASKA	142	09-Oct-96	16:31	58.264	137.205	10.806	31.455	31.455	4.7	15.4	0.80
HS109623	96400023	ICY POINT	SOUTH CENTRAL ALASKA	148	09-Oct-96	18:00	58.194	137.290	10.810	31.535	31.554	5.0	15.3	0.80
HS109624	96400024	ICY POINT	SOUTH CENTRAL ALASKA	145	09-Oct-96	19:27	58.127	137.386	10.605	31.466	31.568	5.2	13.7	0.85
HS109625	96400025	ICY POINT	SOUTH CENTRAL ALASKA	161	09-Oct-96	20:57	58.059	137.476	10.881	31.299	31.558	6.3	15.5	0.85
HS109626	96400026	ICY POINT	SOUTH CENTRAL ALASKA	287	09-Oct-96	22:19	57.991	137.559	10.735	31.661	31.724	7.1	16.3	0.89
HS109627	96400027	ICY POINT	SOUTH CENTRAL ALASKA	394	09-Oct-96	04:02	57.927	137.657	10.576	31.790	31.826	8.1	17.5	0.96
HS109628	96400028	ICY POINT	SOUTH CENTRAL ALASKA	1,004	09-Oct-96	02:45	57.854	137.739	10.762	31.779	31.799	6.5	15.3	0.87
HS109629	96400029	OCEAN CAPE	SOUTH CENTRAL ALASKA	1,956	10-Oct-96	14:45	58.516	140.448	9.972	32.034	32.212	5.1	12.0	0.83
HS109630	96400030	OCEAN CAPE	SOUTH CENTRAL ALASKA	466	10-Oct-96	17:06	58.693	140.388	9.937	32.136	32.172	3.5	7.2	0.88
HS109631	96400031	OCEAN CAPE	SOUTH CENTRAL ALASKA	209	10-Oct-96	19:15	58.853	140.298	10.247	31.798	31.817	5.9	15.4	0.83
HS109632	96400032	OCEAN CAPE	SOUTH CENTRAL ALASKA	154	10-Oct-96	21:30	59.011	140.199	10.294	31.781	31.808	6.6	16.4	0.88
HS109633	96400033	OCEAN CAPE	SOUTH CENTRAL ALASKA	144	10-Oct-96	23:30	59.164	140.107	10.607	31.699	31.804	4.7	14.2	0.76
HS109634	96400034	OCEAN CAPE	SOUTH CENTRAL ALASKA	116	11-Oct-96	01:58	59.322	140.013	10.499	31.573	31.691	4.5	14.3	0.77
HS109635	96400035	OCEAN CAPE	SOUTH CENTRAL ALASKA	79	11-Oct-96	03:49	59.444	139.958	10.983	31.275	30.108	3.0	14.1	0.76
HS109636	96400036	KAYAK ISLAND	CENTRAL ALASKA	81	11-Oct-96	18:01	59.900	143.999	10.531	31.656	31.563	4.5	13.9	0.78
HS109637	96400037	KAYAK ISLAND	CENTRAL ALASKA	158	11-Oct-96	19:29	59.817	144.001	10.567	31.642	31.707	4.3	13.7	0.78
HS109638	96400038	KAYAK ISLAND	CENTRAL ALASKA	196	11-Oct-96	20:53	59.734	144.002	10.466	31.569	31.640	4.3	13.9	0.80
HS109639	96400039	KAYAK ISLAND	CENTRAL ALASKA	3,982	11-Oct-96	22:28	59.152	143.667	9.951	32.045	32.211	6.0	14.6	0.85
HS109640	96400040	KAYAK ISLAND	CENTRAL ALASKA	214	12-Oct-96	00:20	59.568	144.998	9.894	32.091	32.192	5.9	14.6	0.83
HS109641	96400041	CAPE CLEARE	CENTRAL ALASKA	145	13-Oct-96	14:35	59.661	147.987	9.959	30.772	30.857	2.1	9.9	0.57
HS109642	96400042	CAPE CLEARE	CENTRAL ALASKA	159	13-Oct-96	16:51	59.542	147.788	10.063	31.488	31.585	4.9	12.6	0.78

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HS109643	96400043	CAPE CLEARE	CENTRAL ALASKA	82	13-Oct-96	19:06	59.411	147.577	9.689	31.725	31.836	5.6	14.0	0.86
HS109644	96400044	CAPE CLEARE	CENTRAL ALASKA	82	14-Oct-96	14:35	59.406	147.580	9.199	31.840	N/A	N/A	N/A	N/A
HS109645	96400045	CAPE CHINIAK	KODIAK ISLAND	94	18-Oct-96	19:02	57.498	151.944	7.600	31.896	31.989	9.2	16.0	1.19
HS109646	96400046	CAPE CHINIAK	KODIAK ISLAND	160	18-Oct-96	21:24	57.390	151.709	7.705	31.954	32.051	9.3	15.1	1.19
HS109647	96400047	CAPE CHINIAK	KODIAK ISLAND	186	18-Oct-96	23:20	57.277	151.484	7.579	31.972	32.031	10.6	18.1	1.20
HS109648	96400048	CAPE CHINIAK	KODIAK ISLAND	177	19-Oct-96	01:30	57.168	151.266	7.587	32.353	32.474	9.8	17.2	1.13
HS109649	96400049	CAPE CHINIAK	KODIAK ISLAND	149	19-Oct-96	04:16	58.000	150.914	7.608	32.278	32.347	10.0	17.2	1.09
HS109650	96400050	CAPE CHINIAK	KODIAK ISLAND	1,976	19-Oct-96	06:54	56.886	150.682	8.050	32.423	32.505	6.6	12.6	0.92
HS109651	96400051	TRINITY ISLAND	KODIAK ISLAND	3,651	19-Oct-96	18:43	55.967	152.709	7.139	32.592	32.665	9.4	15.8	1.06
HS109652	96400052	TRINITY ISLAND	KODIAK ISLAND	2,315	19-Oct-96	22:00	56.058	152.957	7.707	32.505	32.565	7.9	14.2	0.97
HS109653	96400053	TRINITY ISLAND	KODIAK ISLAND	967	20-Oct-96	00:17	56.158	153.192	8.161	32.426	32.513	7.2	13.7	0.93
HS109654	96400054	TRINITY ISLAND	KODIAK ISLAND	373	20-Oct-96	02:00	56.209	153.314	7.853	32.387	32.465	8.7	16.2	1.03
HS109655	96400055	TRINITY ISLAND	KODIAK ISLAND	173	20-Oct-96	03:29	56.259	153.432	7.902	32.426	32.476	7.6	14.0	0.96
HS109656	96400056	TRINITY ISLAND	KODIAK ISLAND	139	20-Oct-96	04:45	56.309	153.559	7.135	32.336	32.437	12.8	21.1	1.29
HS109657	96400057	TRINITY ISLAND	KODIAK ISLAND	80	20-Oct-96	06:03	56.352	153.675	7.503	32.100	32.262	10.8	17.8	1.23
HS109658	96400058	SHELIKOF STRAIT SW	KODIAK ISLAND	150	20-Oct-96	14:30	57.209	154.835	7.063	31.454	31.522	8.0	13.2	1.01
HS109659	96400059	SHELIKOF STRAIT SW	KODIAK ISLAND	202	20-Oct-96	17:13	57.364	154.994	6.744	31.795	31.871	10.5	16.0	1.17
HS109660	96400060	SHELIKOF STRAIT SW	KODIAK ISLAND	226	20-Oct-96	19:04	57.492	155.014	6.845	31.835	31.912	10.3	15.5	1.16
HS109661	96400061	SHELIKOF STRAIT SW	KODIAK ISLAND	211	20-Oct-96	21:00	57.620	155.035	7.427	31.175	31.293	6.4	11.0	0.89
HS109662	96400062	SHELIKOF STRAIT SW	KODIAK ISLAND	206	20-Oct-96	23:40	57.548	154.976	7.418	31.162	31.281	6.9	11.8	0.89
HS109663	96400063	SHELIKOF STRAIT NE	KODIAK ISLAND	99	21-Oct-96	15:55	58.800	152.771	6.694	31.022	31.272	8.1	13.6	0.95
HS109664	96400064	SHELIKOF STRAIT NE	KODIAK ISLAND	85	21-Oct-96	17:17	58.801	152.928	6.798	31.077	31.356	8.5	14.2	0.98
HS109665	96400065	SHELIKOF STRAIT NE	KODIAK ISLAND	52	21-Oct-96	18:37	58.849	153.037	6.425	30.955	31.208	7.6	12.7	0.97
HS109666	96400066	SHELIKOF STRAIT NE	KODIAK ISLAND	166	21-Oct-96	19:03	58.883	153.174	5.597	30.299	30.422	7.6	13.0	1.07
HS109667	96400067	OFFSHORE	OFFSHORE	110	21-Oct-96	23:00	58.814	152.250	8.022	31.429	31.519	6.7	13.4	0.91
HS109668	96400068	OFFSHORE	OFFSHORE	177	22-Oct-96	02:00	58.822	151.437	8.176	31.858	31.972	7.1	14.4	0.93
HS109669	96400069	OFFSHORE	OFFSHORE	148	22-Oct-96	05:03	58.995	150.718	8.303	31.879	31.996	6.9	13.8	0.92
HS109670	96400070	OFFSHORE	OFFSHORE	151	22-Oct-96	08:00	59.164	149.978	8.957	30.751	30.805	3.6	10.4	0.70
HS109671	96400071	OFFSHORE	OFFSHORE	211	22-Oct-96	11:10	59.370	149.102	7.981	31.972	31.995	8.1	15.2	0.98
HS109672	96400072	CAPE CLEARE	CENTRAL ALASKA	195	22-Oct-96	14:33	59.642	148.379	8.977	30.781	30.798	2.5	10.1	0.62
HS109673	96400073	CAPE CLEARE	CENTRAL ALASKA	191	22-Oct-96	16:51	59.522	148.165	9.028	31.528	31.596	5.3	13.5	0.79
HS109674	96400074	CAPE CLEARE	CENTRAL ALASKA	199	22-Oct-96	19:00	59.392	147.951	8.378	31.904	31.926	6.4	12.8	0.93
HS109675	96400075	CAPE CLEARE	CENTRAL ALASKA	154	22-Oct-96	21:05	59.263	147.719	9.104	32.057	32.071	6.6	14.4	0.92
HS109676	96400076	CAPE CLEARE	CENTRAL ALASKA	292	22-Oct-96	23:35	59.136	147.514	8.928	31.945	31.950	8.0	10.5	0.88
HS109677	96400077	CAPE CLEARE	CENTRAL ALASKA	191	23-Oct-96	02:20	59.991	147.394	8.939	32.188	32.225	6.0	12.5	0.83
HS109678	96400078	OFFSHORE	OFFSHORE	3,985	23-Oct-96	17:09	58.657	144.910	8.936	31.990	31.990	8.3	16.6	0.99
HS109679	96400079	OFFSHORE	OFFSHORE	3,718	23-Oct-96	21:00	58.731	143.931	8.664	32.376	32.376	6.0	11.8	0.83
HS109680	96400080	OFFSHORE	OFFSHORE	3,448	24-Oct-96	01:02	58.619	142.924	8.381	32.342	32.370	6.6	12.5	0.85
HS109681	96400081	OFFSHORE	OFFSHORE	3,561	24-Oct-96	05:01	58.458	141.812	7.904	32.001	31.990	8.6	12.3	1.05
HS109682	96400082	OFFSHORE	OFFSHORE	3,302	24-Oct-96	09:00	58.252	140.676	8.493	32.065	32.175	6.8	12.6	0.88
HS109683	96400083	OFFSHORE	OFFSHORE	316	24-Oct-96	13:00	58.061	138.436	9.630	31.691	31.687	8.3	17.3	0.95
HS109684	96400084	ICY POINT	SOUTH CENTRAL ALASKA	2,855	24-Oct-96	16:41	57.879	138.571	9.363	31.989	32.011	6.4	14.0	0.90

Table 4. Physical oceanographic data collected on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

Station ID	CTD Filename	Transect	Region	Bottom Depth (m)	Date	Time UTC	Latitude (°N)	Longitude (°W)	SST (°C)	SSS (ppt)	SSS Bottle (ppt)	NO_3 (µmol / L)	SiO_4 (µmol / L)	PO_4 (µmol / L)
HS109685	96400085	ICY POINT	SOUTH CENTRAL ALASKA	1,021	24-Oct-96	18:47	57.964	138.464	9.399	31.431	31.464	7.5	17.3	0.91
HS109686	96400086	ICY POINT	SOUTH CENTRAL ALASKA	217	24-Oct-96	21:06	58.051	138.190	9.078	31.462	31.546	9.2	19.2	1.01
HS109687	96400087	ICY POINT	SOUTH CENTRAL ALASKA	202	25-Oct-96	00:20	58.214	137.647	9.665	31.511	31.570	7.3	16.8	0.89
HS109688	96400088	ICY POINT	SOUTH CENTRAL ALASKA	191	25-Oct-96	02:25	58.302	137.364	9.781	31.550	31.593	7.5	17.1	0.96
HS109689	96400089	ICY POINT	SOUTH CENTRAL ALASKA	175	25-Oct-96	03:47	58.363	137.173	9.718	31.511	31.586	7.0	16.4	0.88

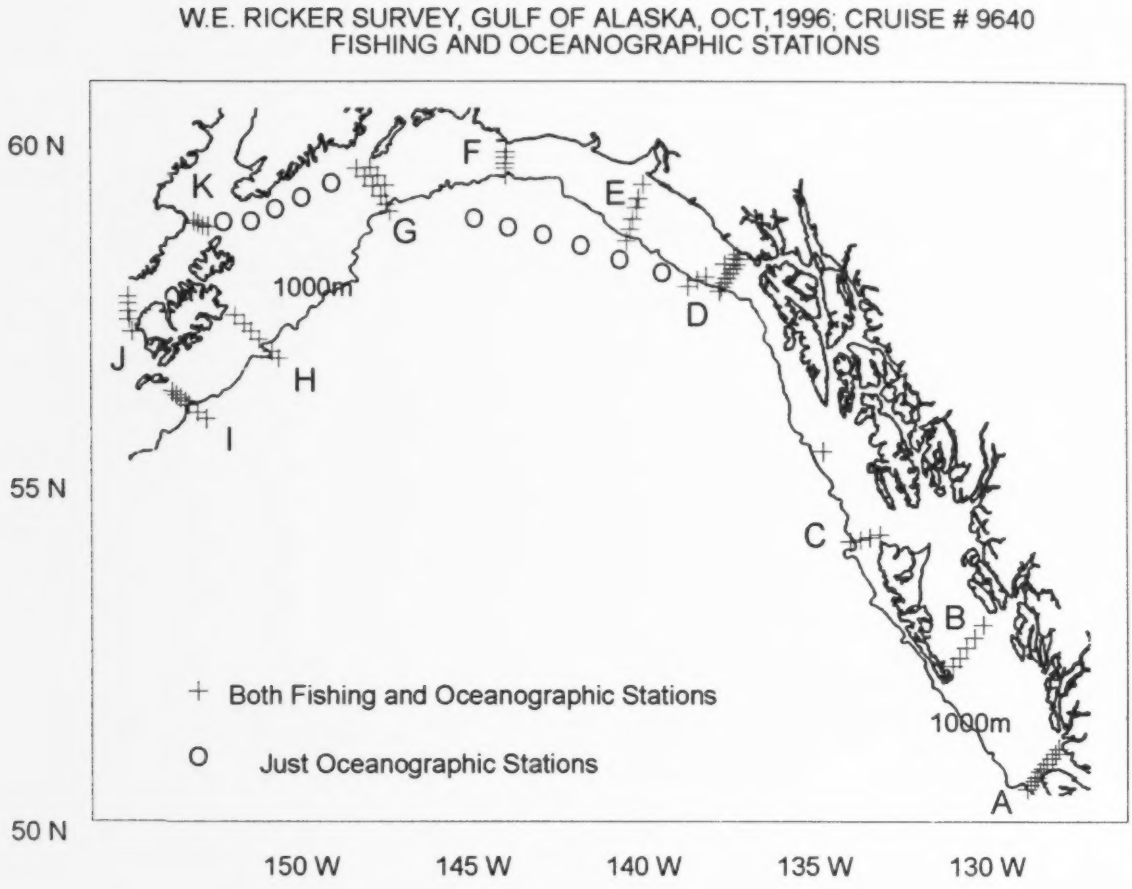

Figure 1. Fishing and oceanographic stations on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

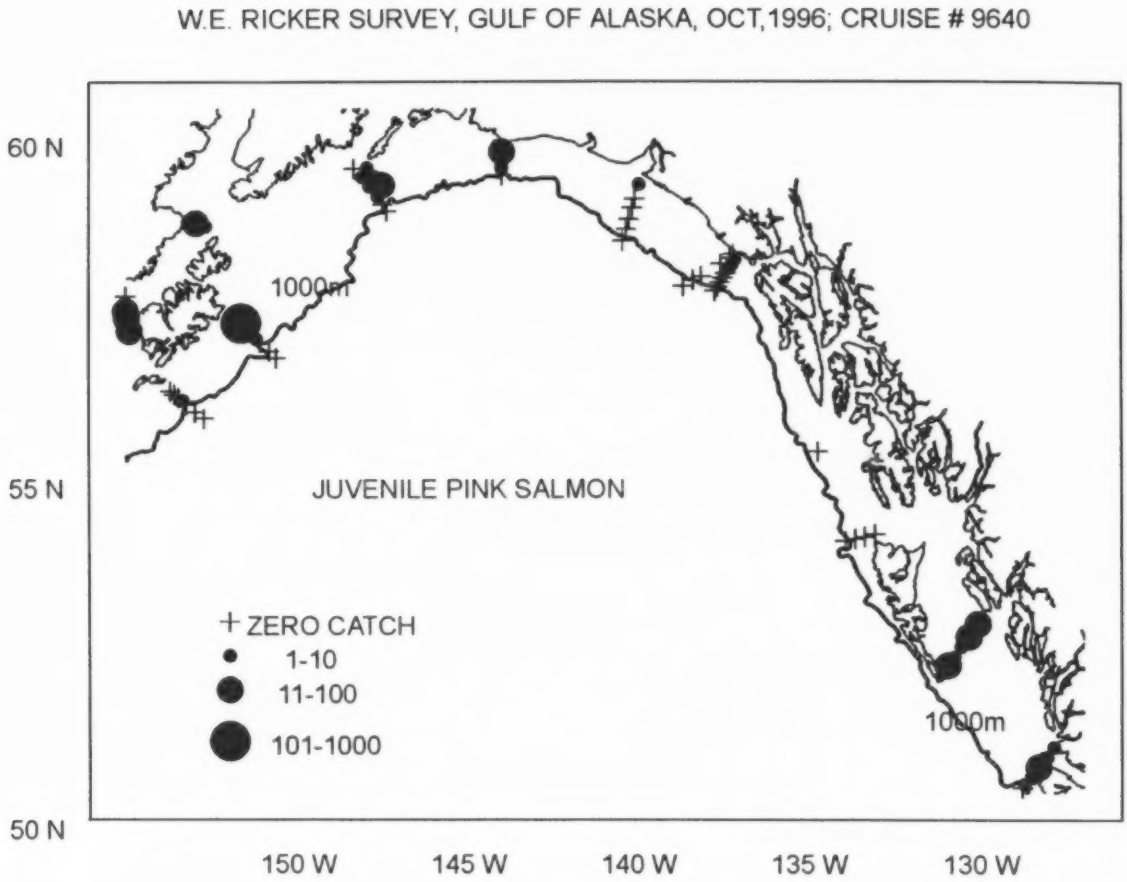

Figure 2. Fishing stations and catch rates of juvenile (age .0+) pink salmon on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

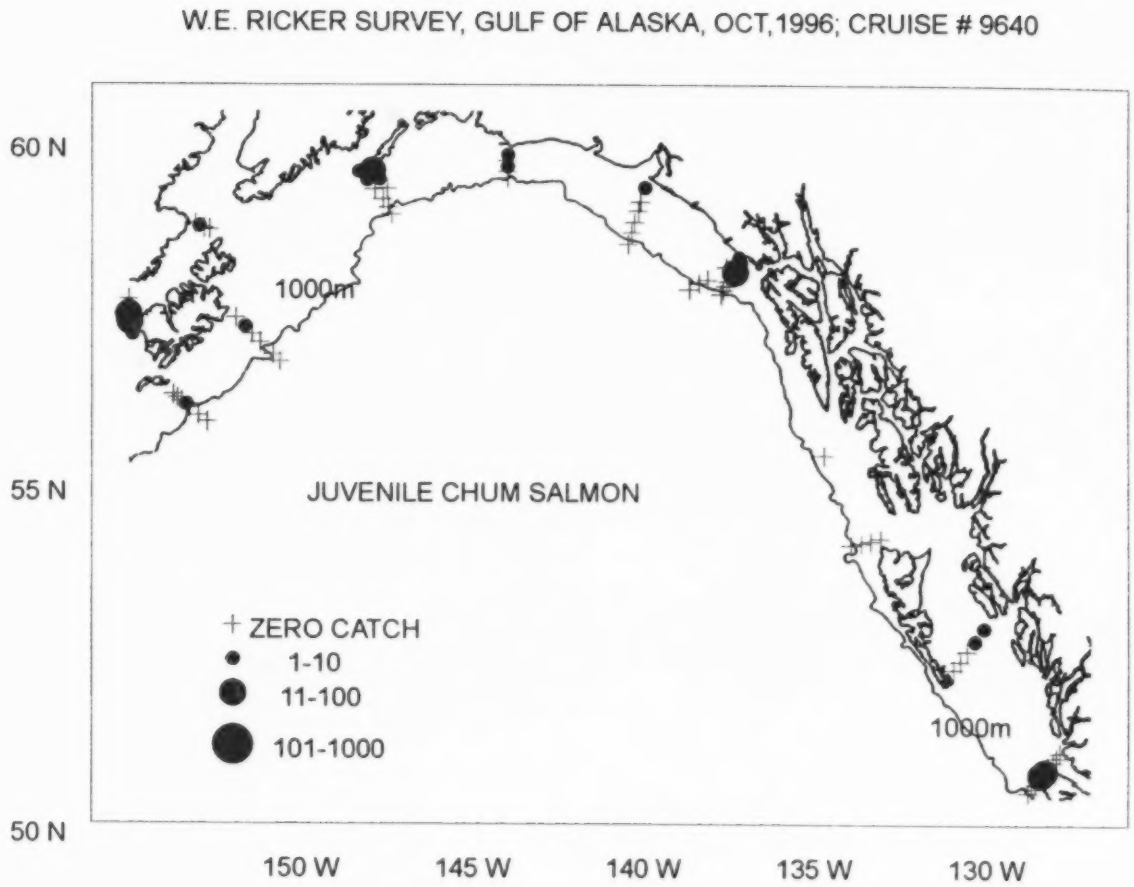

Figure 3. Fishing stations and catch rates of juvenile (age .0+) chum salmon on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

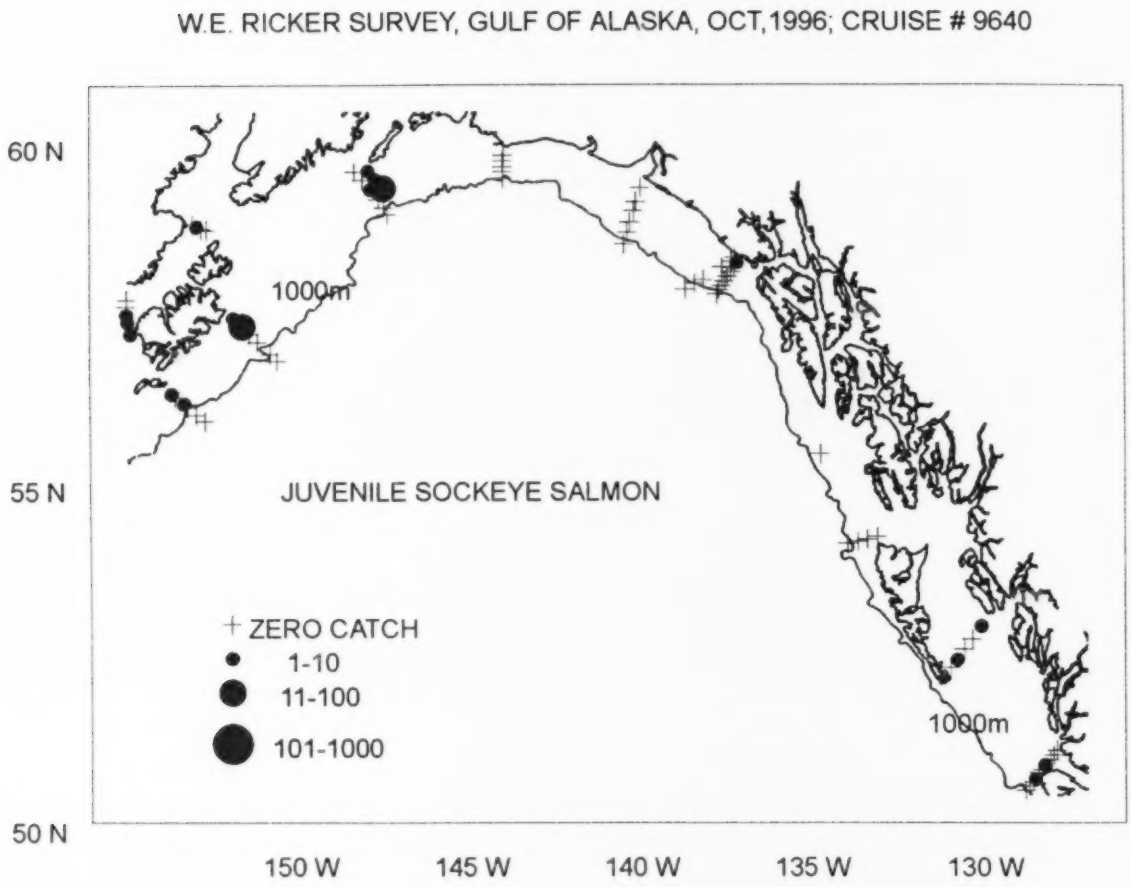

Figure 4. Fishing stations and catch rates of juvenile (age .0+) sockeye salmon on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

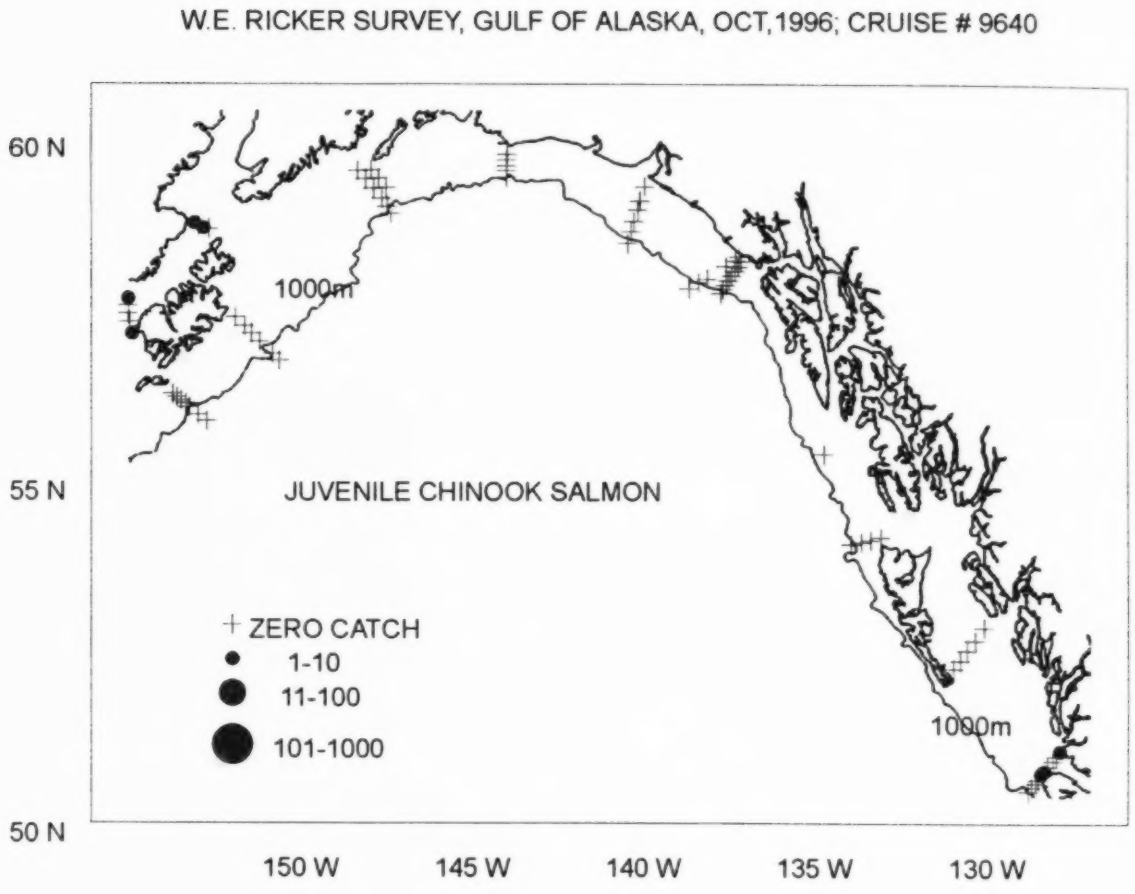

Figure 5. Fishing stations and catch rates of juvenile (age .0+) chinook salmon on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

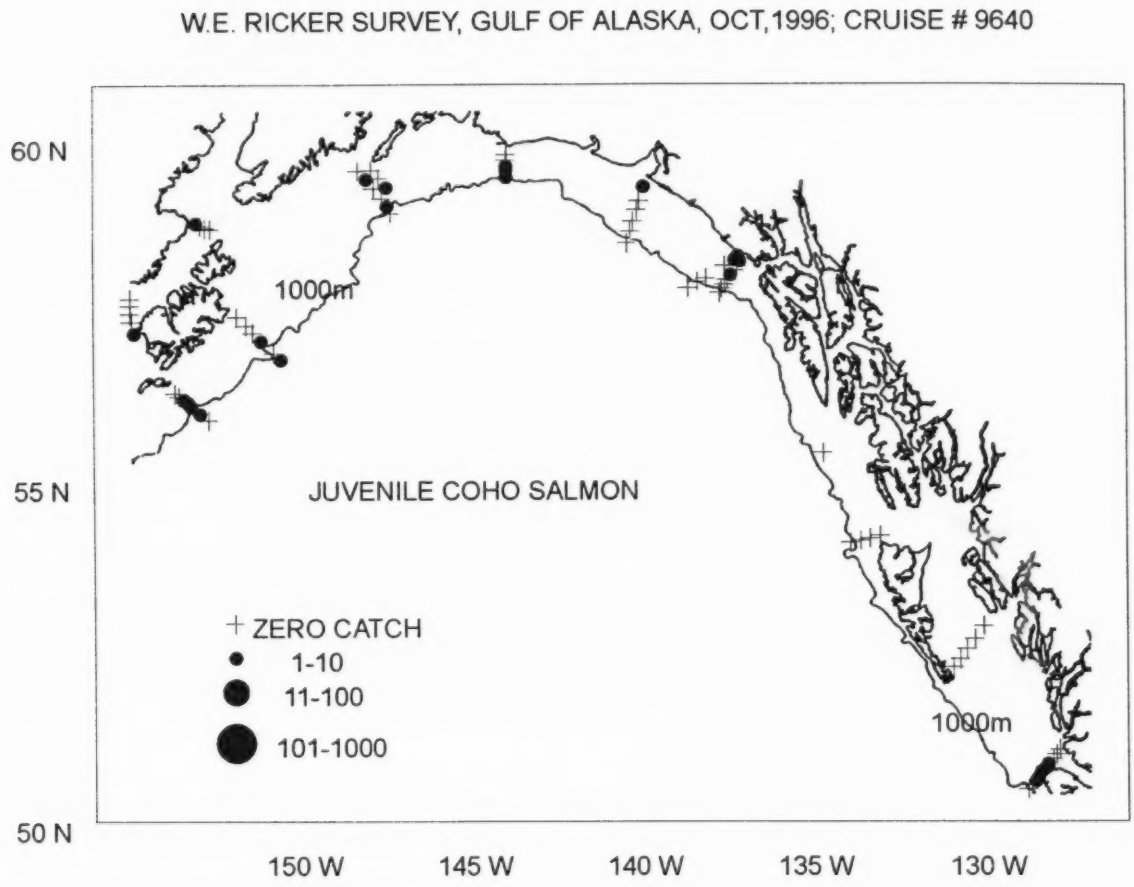

Figure 6. Fishing stations and catch rates of juvenile (age .0+) coho salmon on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

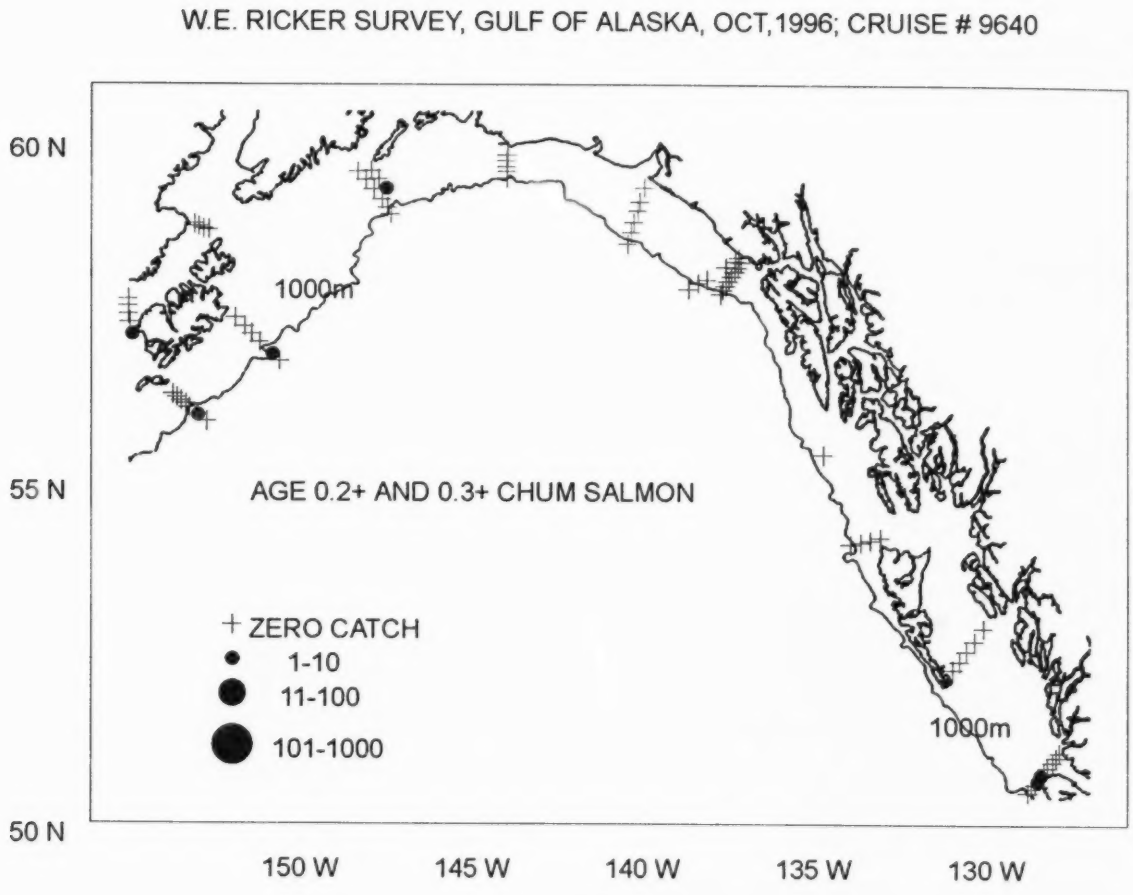

Figure 7. Fishing stations and catch rates of immature (age .2+ and .3+) chum salmon on the CCGS W.E. Ricker survey to the Gulf of Alaska, October 1996.

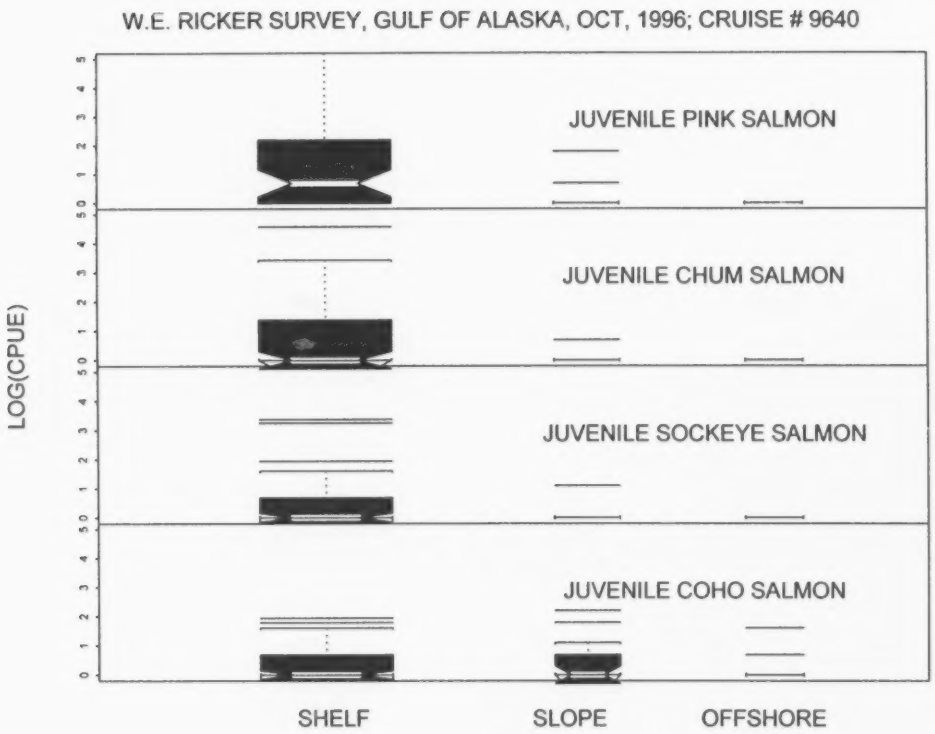

Figure 8. Box and whisker plots of juvenile salmon catch (log(CPUE)) by station location on the shelf (within the 200 m isobath), slope (between the 200 m and 1,000 m isobaths) or offshore (seaward of the 1000m isobath). The center of the boxes represents the median CPUE, and the top and bottom of the boxes represent the upper and lower quartiles for CPUE. Horizontal lines with downward pointing ends represent the upper extremes of CPUE, excluding outliers. (Outliers are separately identified by horizontal straight lines). Box widths are proportional to the square root of the sample size.

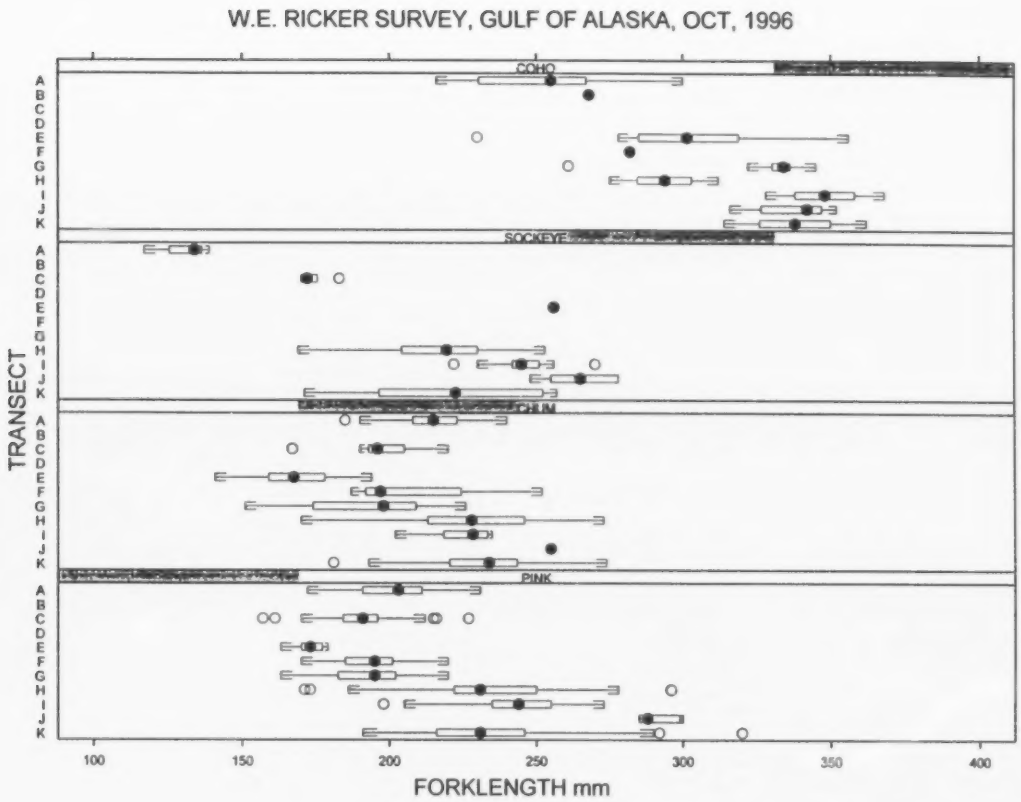

Figure 9. Box and whisker plots of juvenile salmon sizes (fork length; mm) for each transect location.
The black dot represents the median fork length, and the width of the boxes indicates the upper and lower quartiles. Dashed-lined brackets to the sides represent observed extreme sizes, and open circles represent outliers. See Figure 1 for transect locations.

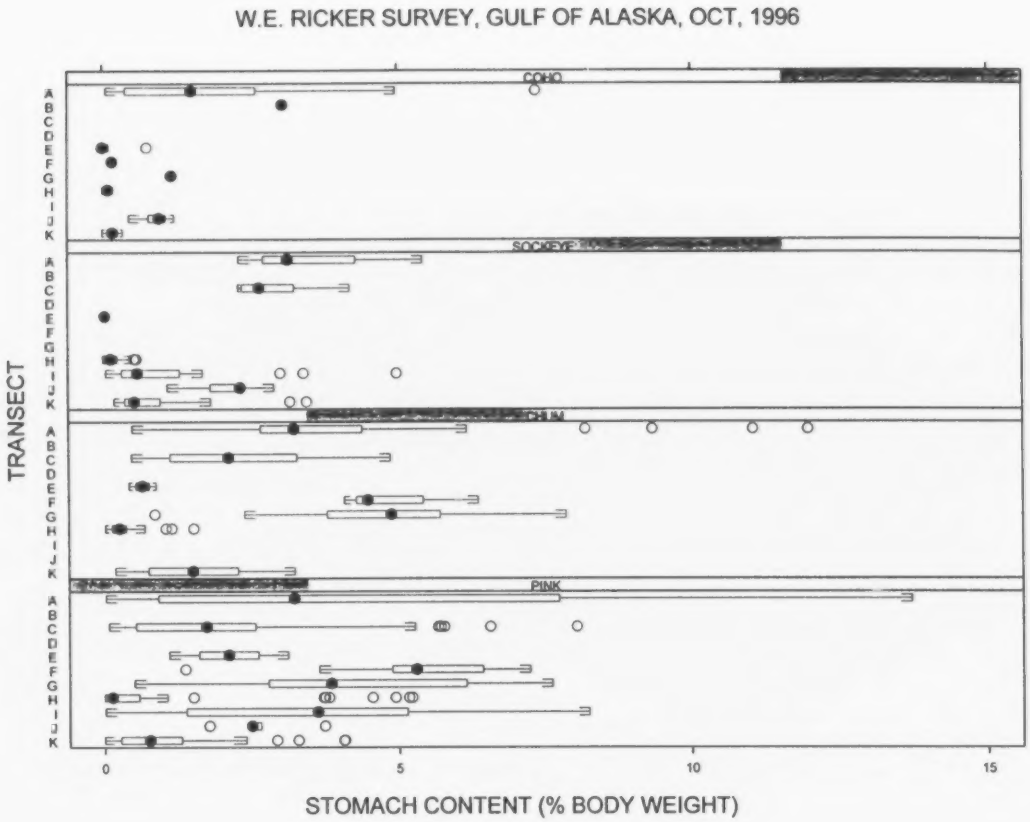

Figure 10. Box and whisker plots of stomach content weight (expressed as percent of whole body weight) versus transect location.
The black dot represents the median stomach content weight, and the width of the boxes indicates the upper and lower quartiles. Dashed-lined brackets to the sides represent observed extreme weights, and open circles represent outliers. See Figure 1 for transect locations.

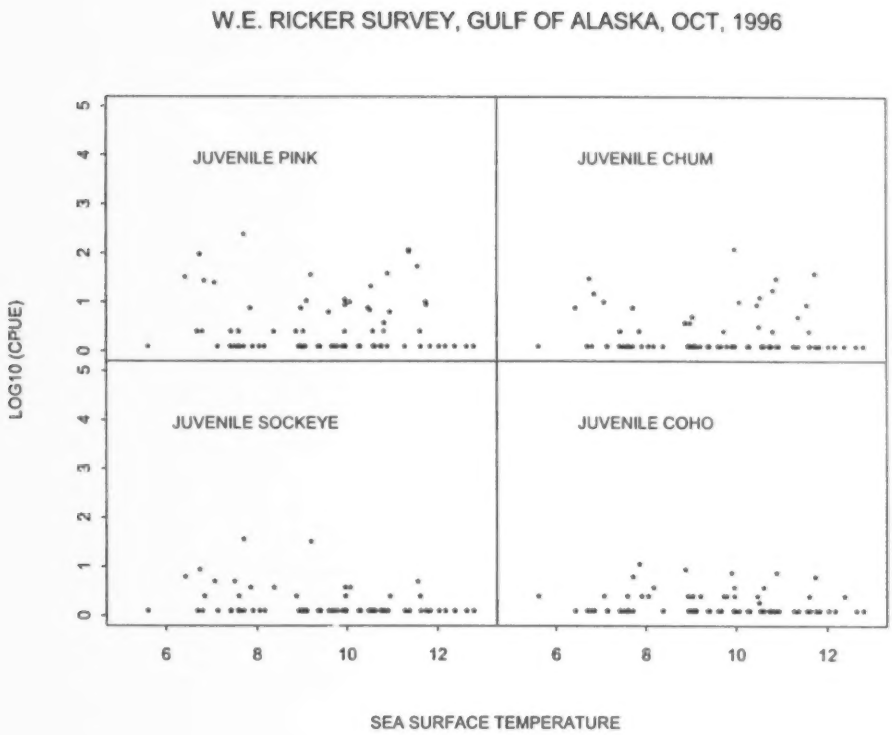

Figure 11. Scatterplots of juvenile salmon catch (log(CPUE)) versus sea surface temperature (°C).

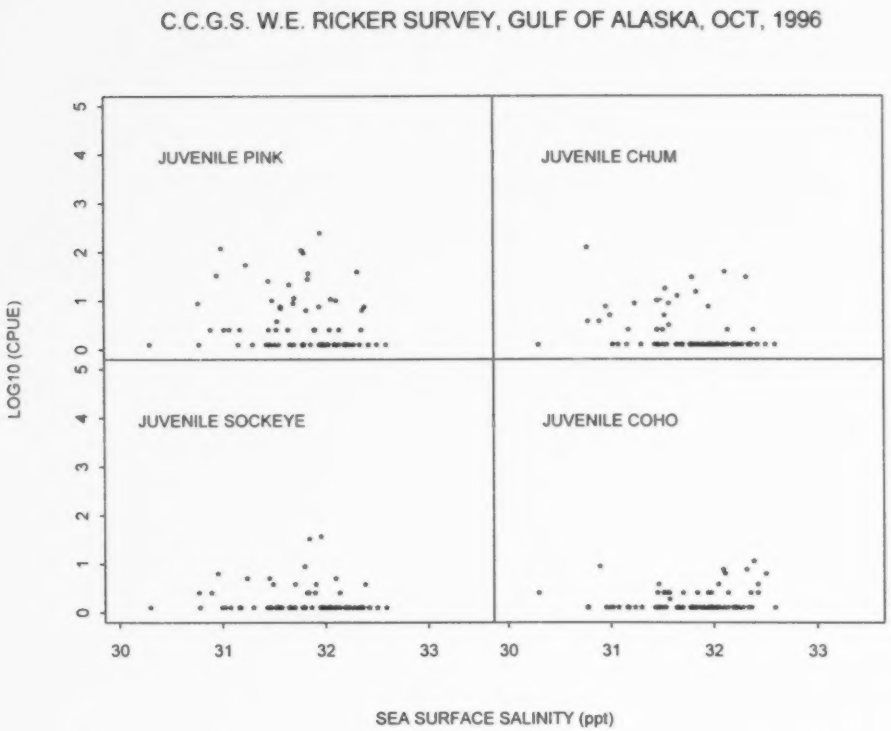

Figure 12. Scatterplots of juvenile salmon catch (log(CPUE)) versus sea surface salinity (ppt).

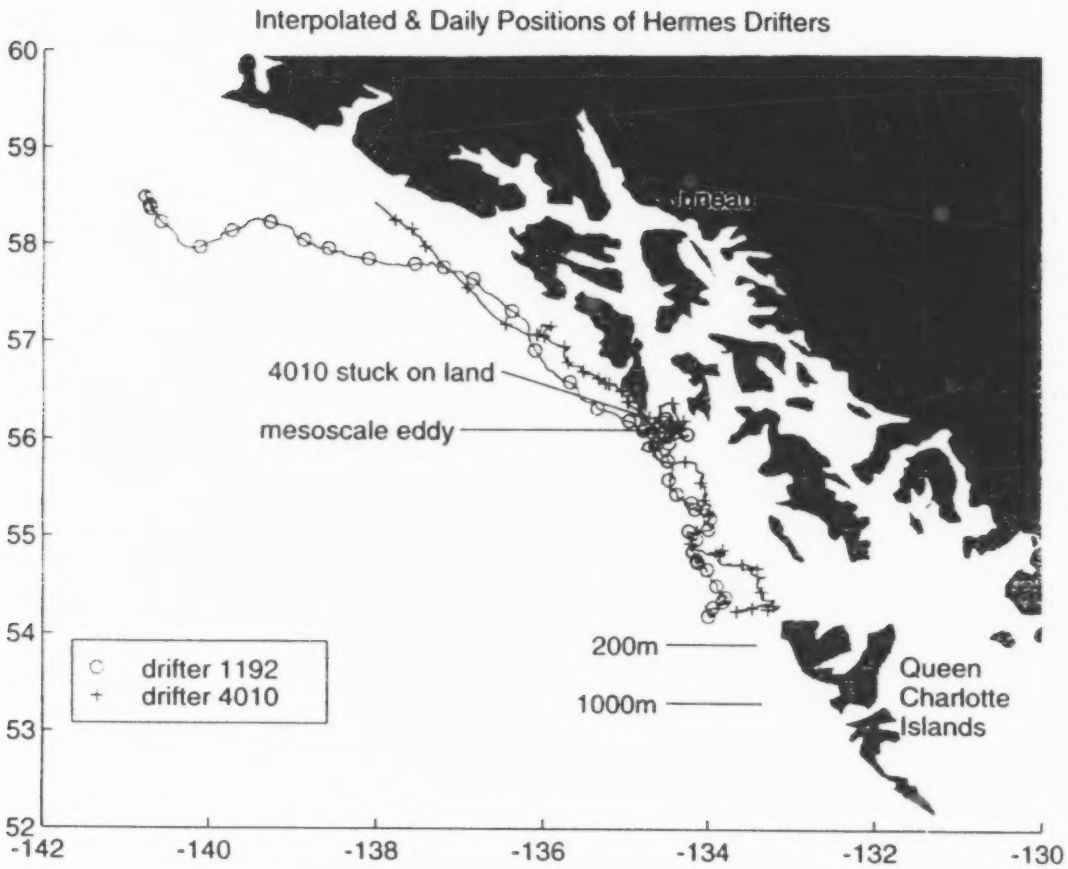

Figure 13. Drifter tracks for Hermes surface drifters 1192 and 4010, released on October 8, 1996.
The drifters stopped relaying data on November 27, 1996, and December 21, 1996, respectively. Lines show the drifters' positions interpolated every three hours whereas symbols mark their estimated daily positions (i.e., position every 24 hours after initial release). Note that drifter 4010 grounded between November 4 and December 4 and both drifters spent considerable time trapped in a small mesoscale eddy south of Baranof Island.

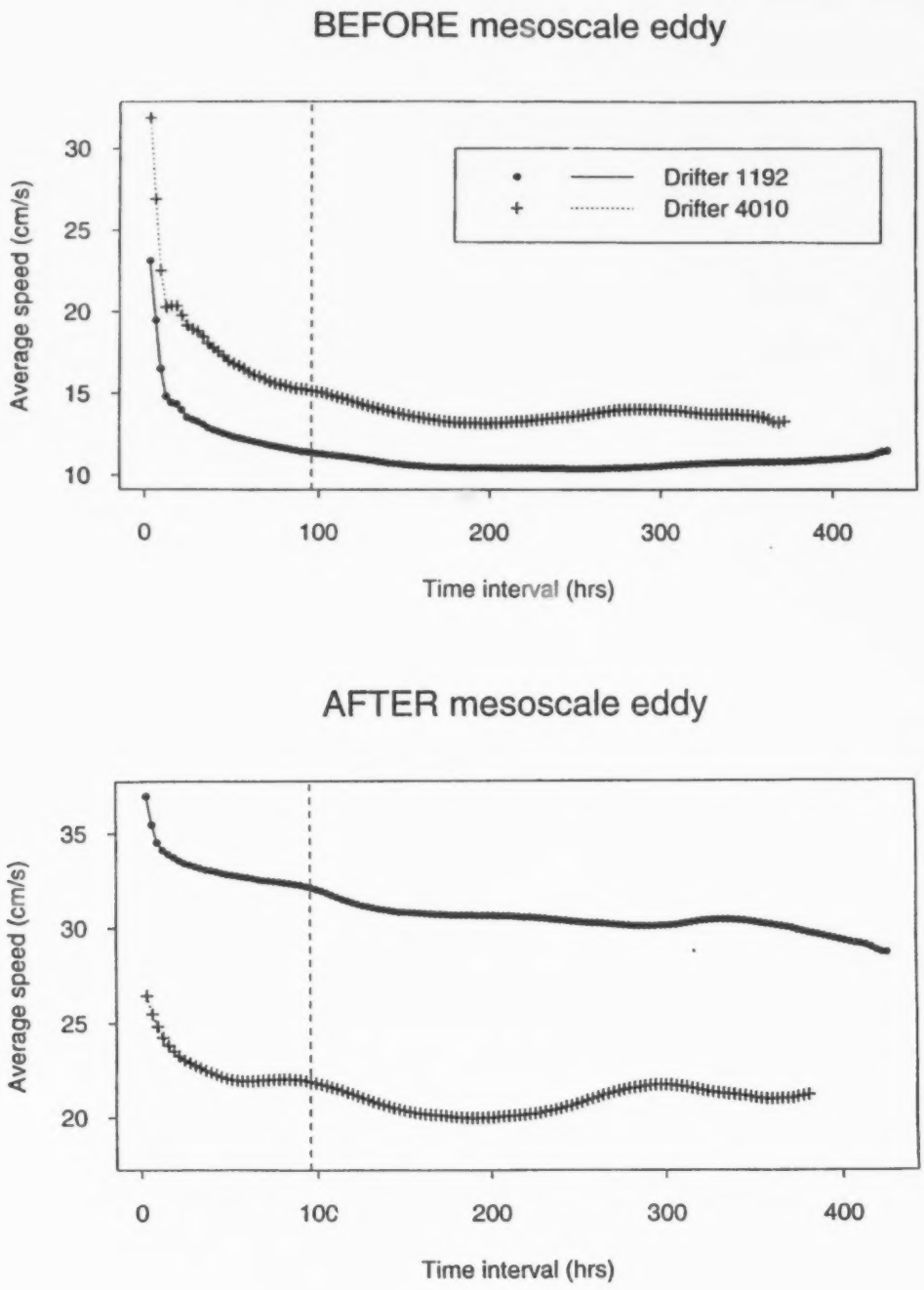

Figure 14. Estimates of average drifter speed at successively greater temporal separations.
As the average is calculated over greater temporal separations, the effect of tidal oscillations and other rotary effects are discounted.